

# **CITY OF REEDLEY**

**ENGINEERING DEPARTMENT**

## **STANDARD PLANS**



**September, 2016**

**CITY OF REEDLEY  
ENGINEERING DEPARTMENT  
1733 NINTH STREET  
REEDLEY, CA 93654**

**RESOLUTION NO. 2015-106**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF REEDLEY ACCEPTING REVISIONS TO THE STANDARD DRAWINGS FOR THE WATER AND SEWER SECTIONS OF THE STANDARD PLAN DRAWINGS.**

**WHEREAS**, the City of Reedley Standard Plan Drawings are used by the City to provide consistency and ease of maintenance to required facilities constructed within the City right of way; and

**WHEREAS**, the City of Reedley Standard Plan Drawings are used by contractors and developers to estimate the materials and costs for the installation of City owned facilities within the City right of way, and

**WHEREAS**, the Standard Plan Drawings have not been updated since 2007, and

**WHEREAS**, the Standard Plan Drawings should reflect the most current federal/state regulations and City ordinances, and

**WHEREAS**, on November 10th, 2015 the City held a public meeting at the City of Reedley Council Chamber, at 845 "G" Street and received a staff report, staff presentation and accepted public comments.

**NOW, THEREFORE, BE IT RESOLVED AS FOLLOWS:**

1. The foregoing recitals are true and correct and incorporated herein by reference; and
2. The City Council using their independent judgment, hereby accepts the revised and new standard plan drawings for water and sewer facilities; and
3. This resolution is effective upon adoption.

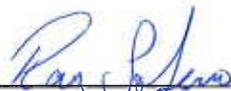
This foregoing resolution is hereby approved the 10th day of November, 2015, by the following vote:

AYES: Beck, Betancourt, Fast, Rodriguez, Soleno.

NOES: None.

ABSTAIN: None.

ABSENT: None.

  
\_\_\_\_\_  
Ray Soleno, Mayor

ATTEST:

  
\_\_\_\_\_  
Sylvia B. Plata, City Clerk



**RESOLUTION NO. 2016-085**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF REEDLEY ACCEPTING THE REVISIONS TO THE STANDARD PLAN DRAWINGS FOR THE STREETS, STORM DRAIN, AND LANDSCAPE SECTIONS OF THE STANDARD PLAN DRAWINGS**

**WHEREAS**, the City of Reedley Standard Plan Drawings are used by the City to provide consistency and ease of maintenance to required facilities constructed within the City right of way; and

**WHEREAS**, the City of Reedley Standard Plan Drawings are used by contractors and developers to estimate the materials and costs for the installation of City owned facilities within the City; and

**WHEREAS**, the Standard Plan Drawings have not been updated since 2007; and

**WHEREAS**, the Standard Plan Drawings should reflect the most current federal/state regulations and City ordinances; and

**WHEREAS**, on September 27, 2016 the City held a public meeting at the City of Reedley Council Chamber, at 845 "G" Street and received a staff report, staff presentation, and accepted public comments.

**NOW, THEREFORE, BE IT RESOLVED AS FOLLOWS:**

1. The foregoing recitals are true and correct and incorporated herein by reference; and
2. The City Council using their independent judgment, hereby accepts the revised and new standard plan drawings for streets, storm drain, and landscape facilities; and
3. This resolution is effective upon adoption.

This foregoing resolution is hereby approved the 27<sup>th</sup> day of September, 2016, by the following vote:

AYES: Betancourt, Fast, Beck, Rodriguez, Soleno.

NOES: None.

ABSTAIN: None.

ABSENT: None.

  
\_\_\_\_\_  
Ray Soleno, Mayor

ATTEST:

  
\_\_\_\_\_  
Sylvia B. Plata, City Clerk



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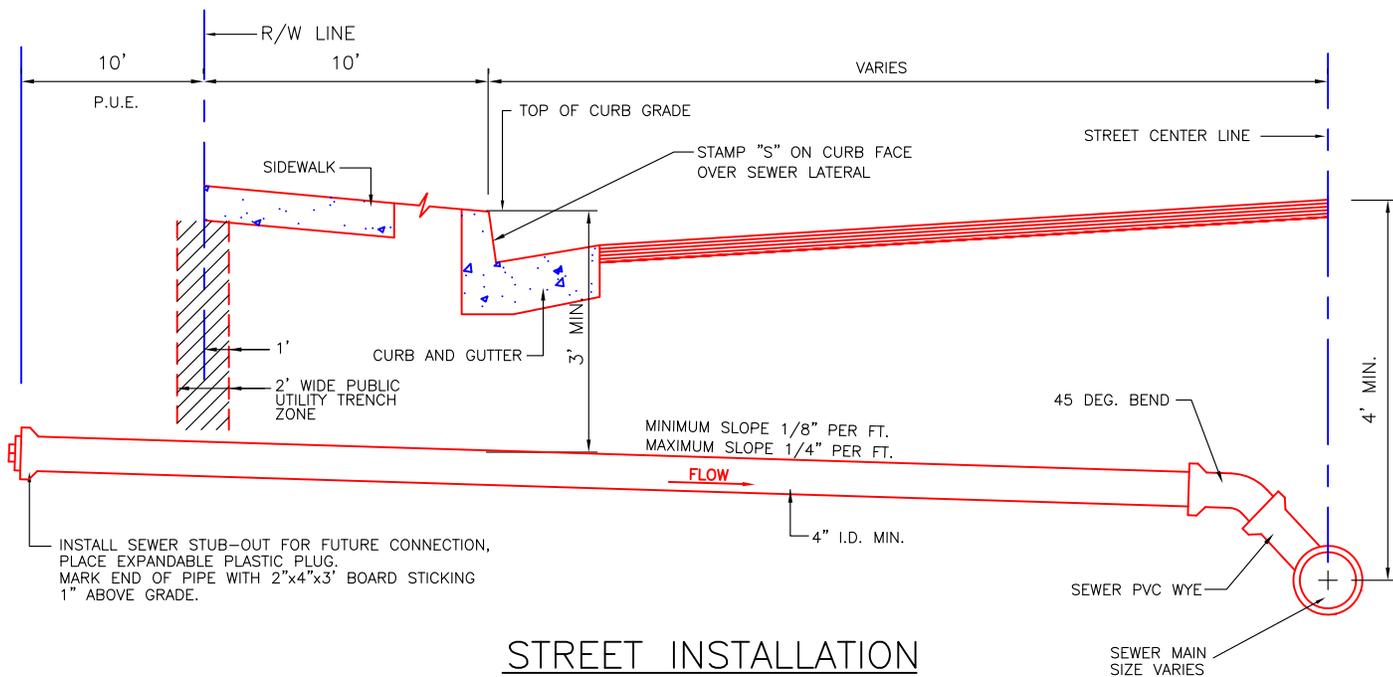
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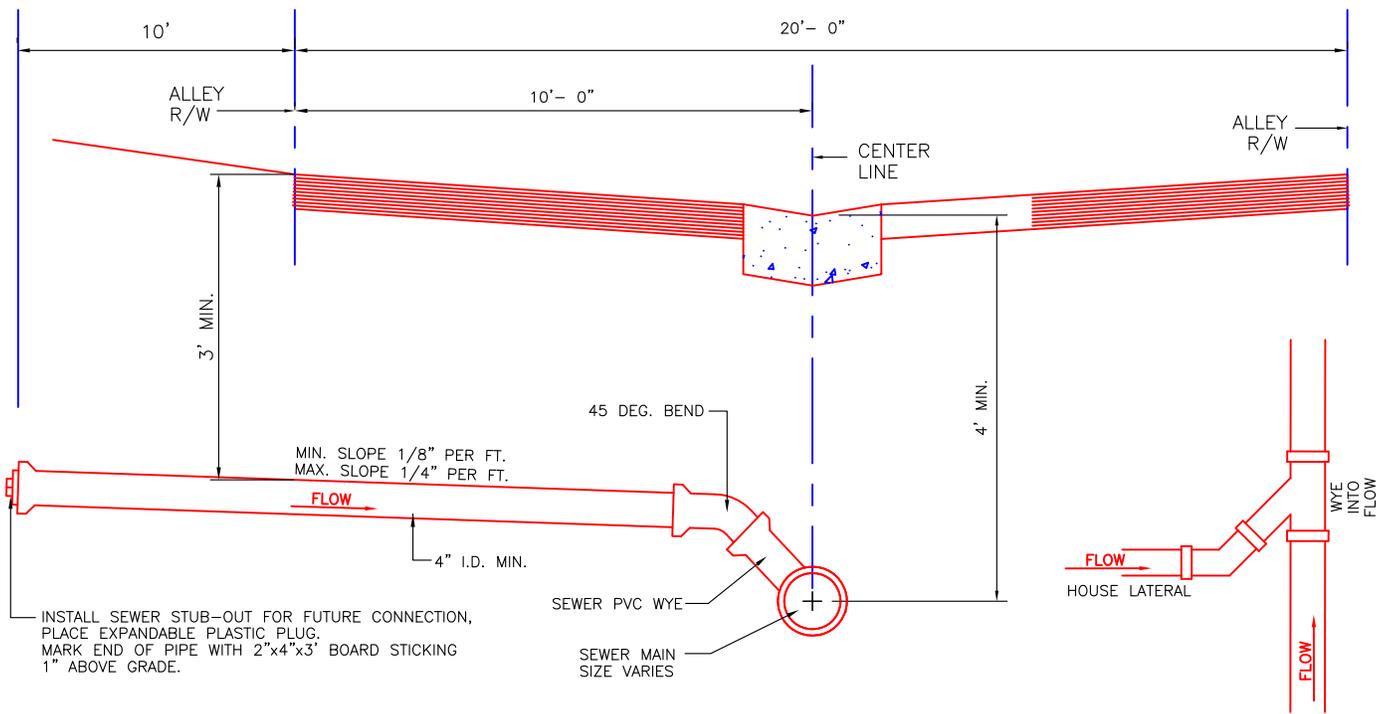
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**STREET INSTALLATION**

**NOTES:**

1. SEWER SERVICE LATERAL WITHIN A RESIDENTIAL SUBDIVISION SHALL BE LOCATED 10 FT OFF FROM CENTER OF LOT.
2. COMPACT SOIL UNDER AND AROUND PVC SEWER WYE TO AVOID SHEAR.
3. LATERALS LOCATED SO AS NOT TO CONFLICT WITH PUBLIC UTILITIES.
4. P.U.E. = PUBLIC UTILITY EASEMENT
5. SEWER SERVICE LATERAL TO BE SDR-35 or 21 W/GASKETS. PVC W/MIN. PIPE STIFFNESS OF 46 AT 5% DEFLECTION.



**ALLEY INSTALLATION**

**PLAN VIEW**

NOT TO SCALE

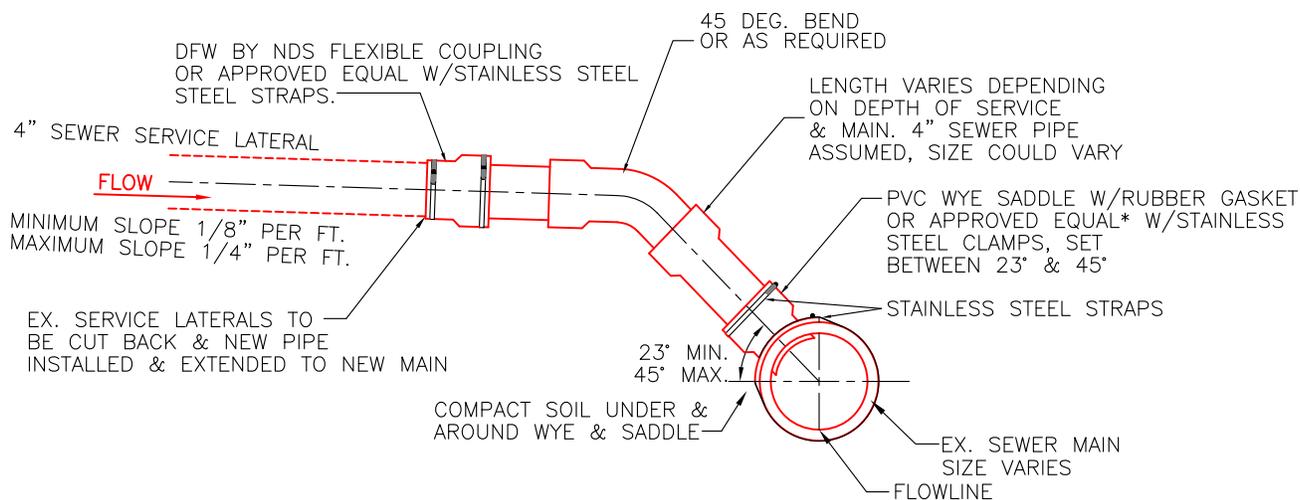
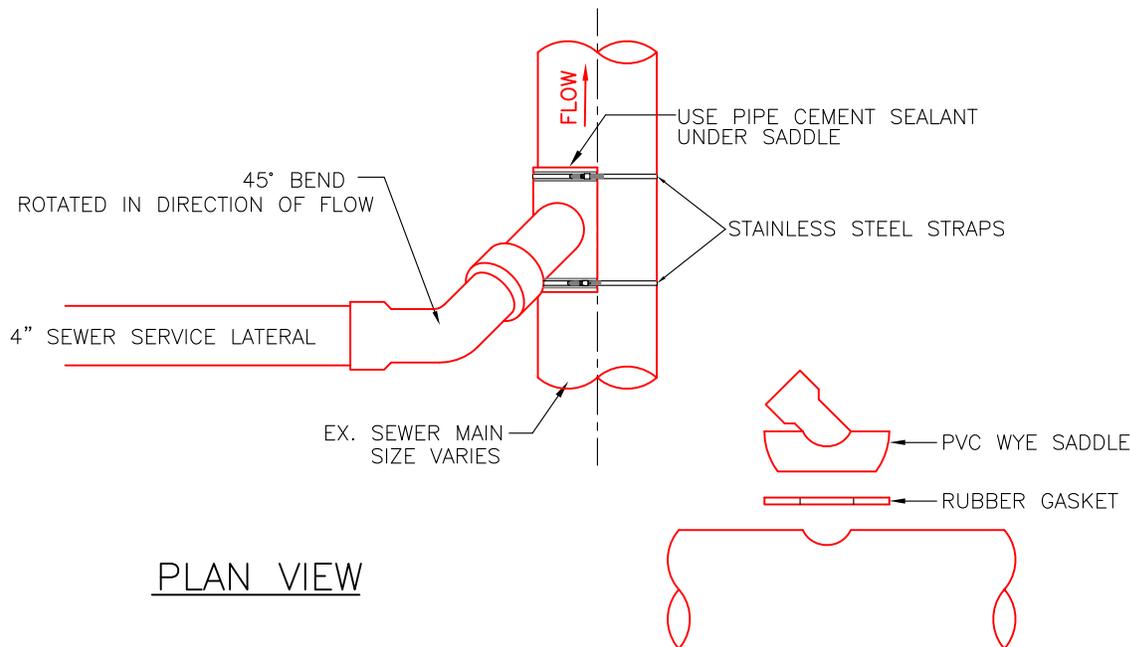
SEWER SERVICE LATERAL  
CONNECTION INTO  
NEW SEWER MAIN

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NOV. 2015

DRAWN BY: kjp

CITY OF REEDLEY

S-1



\*IF DFW BY NDS FLEXIBLE SADDLE  
W/STAINLESS STEEL CLAMPS AND WYE  
USED, SLURRY REQUIRED AROUND  
SADDLE AND WYE.

**NOTES:**

1. FOR PIPES 6" TO 12" IN DIAMETER, A LICENSED CONTRACTOR (C36) WHO HAS THE PROPER EQUIPMENT AND PERMITS IS CONSIDERED AN APPROVED AGENT AND MAY CORE INTO THE CITY'S SEWER MAINS OR REMOVE A SECTION AND INSTALL A WYE OR TEE.
2. FOR SEWER MAINS 18" OR LARGER, A MANHOLE MUST BE CONSTRUCTED WHERE CORINGS ARE MADE.
3. THE CITY PUBLIC WORKS INSPECTOR MUST OBSERVE ALL SADDLE & CORE CONNECTIONS TO EXISTING CITY SEWER MAINS.
4. VITRIFIED CLAY PIPE SADDLES SHALL BE EXTRA STRENGTH CLAY PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF THE "WEST COAST STANDARDS OF THE CLAY PIPE INSTITUTE".
5. OPENINGS INTO EXISTING SEWER MAINS SHALL BE MADE ONLY LARGE ENOUGH TO ADMIT ALL OF SADDLE FITTINGS.
6. THIS STANDARD DETAIL IS ONLY TO BE USED WHEN CONNECTING TO EXISTING SEWER MAIN LINES. NEW LINES SHALL HAVE WYES AS PER CITY STD. PLAN S-1.
7. APPLY SILICON SEALANT TO COMPRESSION SCREWS AND WRAP STAINLESS STEEL STRAP WITH THREE (3) LAYERS OF PVC TAPE.

NOT TO SCALE

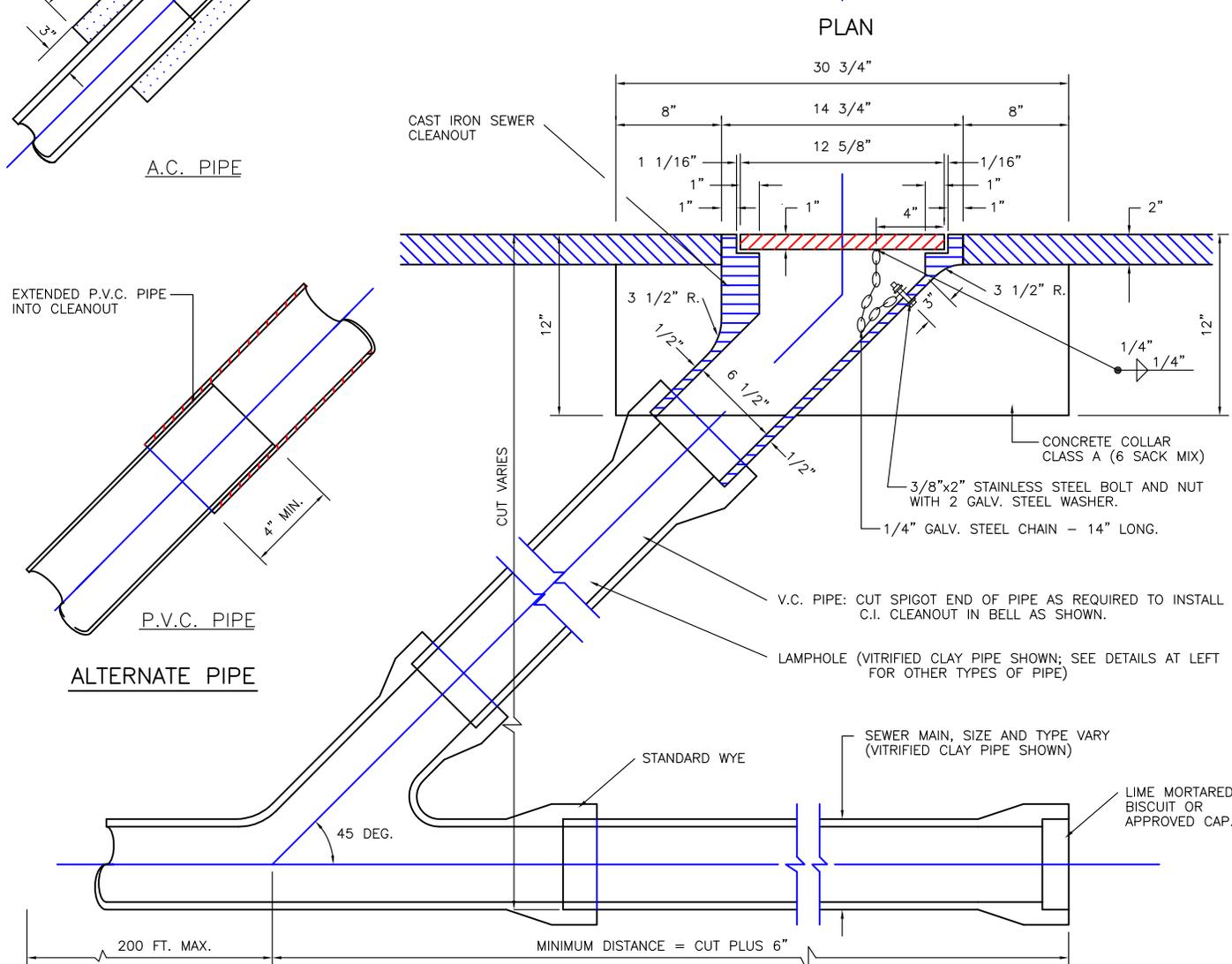
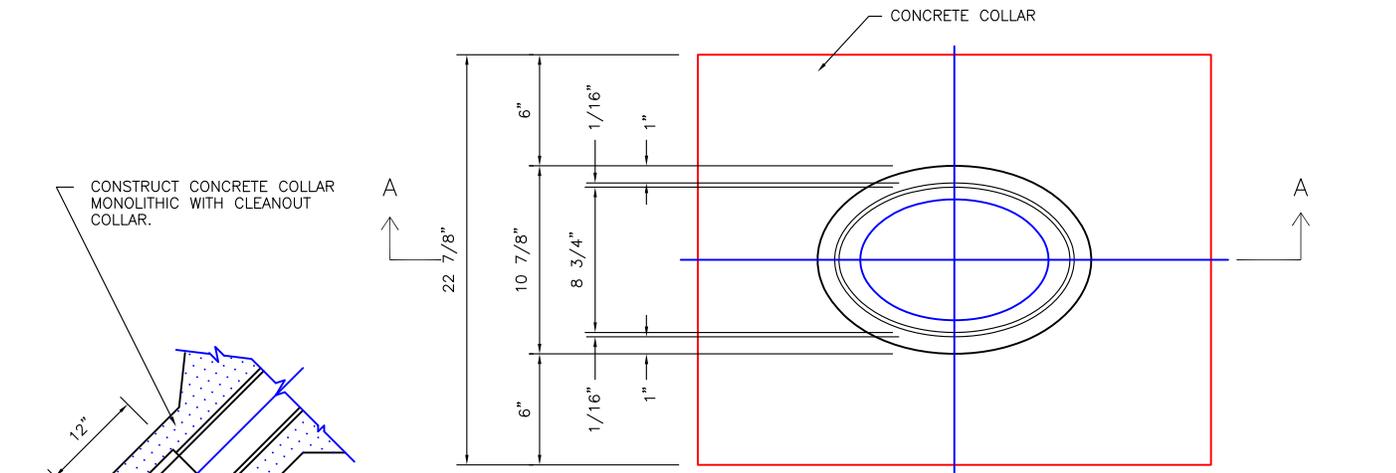
SEWER LATERAL SERVICE  
CONNECTION INTO  
EXISTING SEWER MAIN

REVISIONS:  
NOV. 2015

DRAWN BY: kjp

CITY OF REEDLEY

S-2



- NOTES:
1. LAMP HOLE SHALL BE 6 INCHES IN DIAMETER AND OF THE SAME MATERIAL AS THE MAIN.
  2. ALL CONCRETE SHALL BE CLASS "B" CONCRETE.

SECTION "AA"

NOT TO SCALE

SEWER CLEANOUT

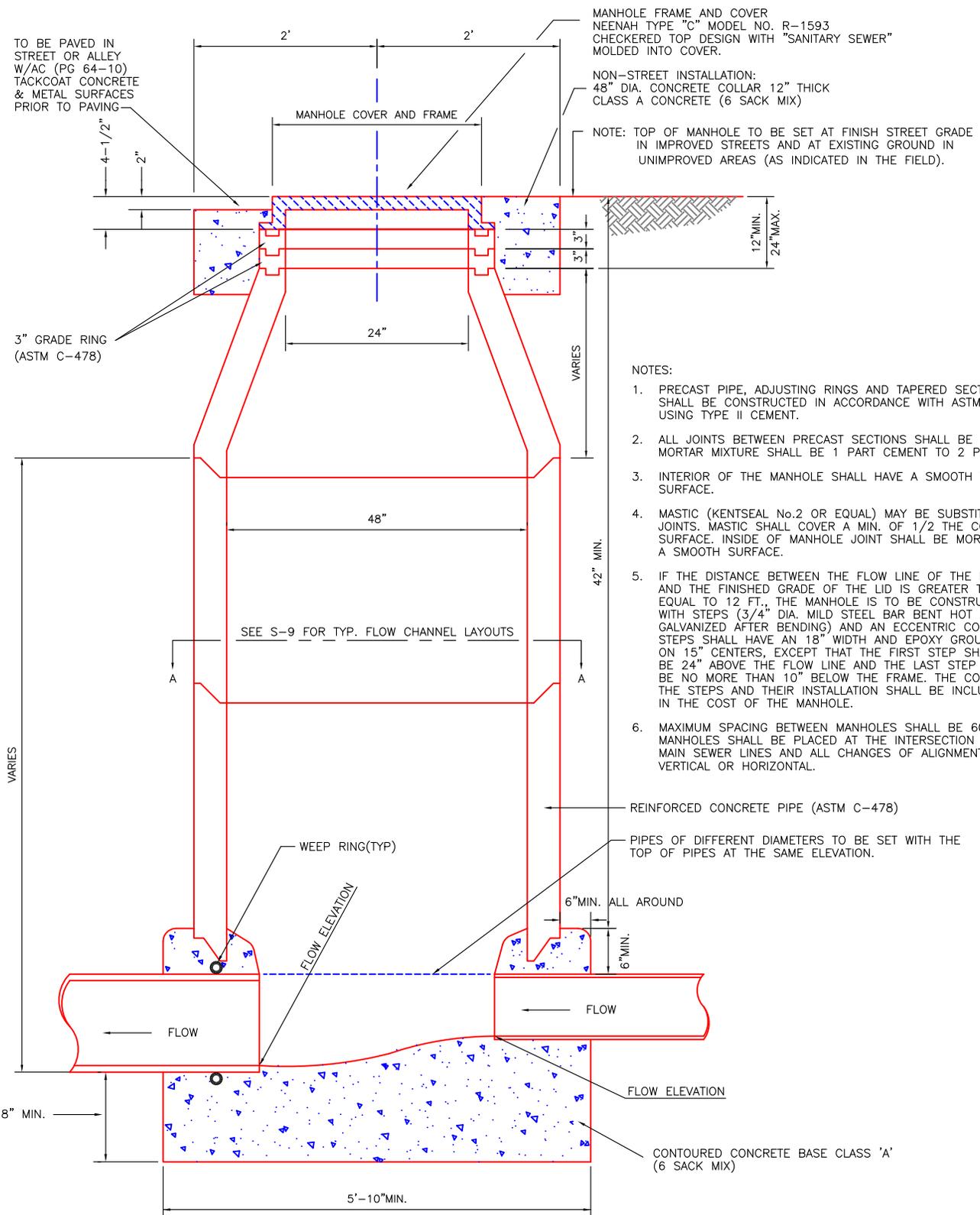
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NOV. 2015

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CITY OF REEDLEY

S-3

TO BE PAVED IN STREET OR ALLEY W/AC (PG 64-10) TACKCOAT CONCRETE & METAL SURFACES PRIOR TO PAVING



MANHOLE FRAME AND COVER  
NEENAH TYPE "C" MODEL NO. R-1593  
CHECKERED TOP DESIGN WITH "SANITARY SEWER"  
MOLDED INTO COVER.

NON-STREET INSTALLATION:  
48" DIA. CONCRETE COLLAR 12" THICK  
CLASS A CONCRETE (6 SACK MIX)

NOTE: TOP OF MANHOLE TO BE SET AT FINISH STREET GRADE  
IN IMPROVED STREETS AND AT EXISTING GROUND IN  
UNIMPROVED AREAS (AS INDICATED IN THE FIELD).

NOTES:

1. PRECAST PIPE, ADJUSTING RINGS AND TAPERED SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C-478 USING TYPE II CEMENT.
2. ALL JOINTS BETWEEN PRECAST SECTIONS SHALL BE MORTARED. MORTAR MIXTURE SHALL BE 1 PART CEMENT TO 2 PARTS SAND.
3. INTERIOR OF THE MANHOLE SHALL HAVE A SMOOTH TROWELED SURFACE.
4. MASTIC (KENTSEAL No.2 OR EQUAL) MAY BE SUBSTITUTED AT JOINTS. MASTIC SHALL COVER A MIN. OF 1/2 THE COMPRESSED SURFACE. INSIDE OF MANHOLE JOINT SHALL BE MORTARED TO A SMOOTH SURFACE.
5. IF THE DISTANCE BETWEEN THE FLOW LINE OF THE MANHOLE AND THE FINISHED GRADE OF THE LID IS GREATER THAN OR EQUAL TO 12 FT., THE MANHOLE IS TO BE CONSTRUCTED WITH STEPS (3/4" DIA. MILD STEEL BAR BENT HOT AND GALVANIZED AFTER BENDING) AND AN ECCENTRIC CONE. STEPS SHALL HAVE AN 18" WIDTH AND EPOXY GROUTED ON 15" CENTERS, EXCEPT THAT THE FIRST STEP SHALL BE 24" ABOVE THE FLOW LINE AND THE LAST STEP SHALL BE NO MORE THAN 10" BELOW THE FRAME. THE COST OF THE STEPS AND THEIR INSTALLATION SHALL BE INCLUDED IN THE COST OF THE MANHOLE.
6. MAXIMUM SPACING BETWEEN MANHOLES SHALL BE 600 L.F. MANHOLES SHALL BE PLACED AT THE INTERSECTION OF ALL MAIN SEWER LINES AND ALL CHANGES OF ALIGNMENT EITHER VERTICAL OR HORIZONTAL.

NOT TO SCALE

SEWER MANHOLE

REVISIONS:  
NOV. 2015

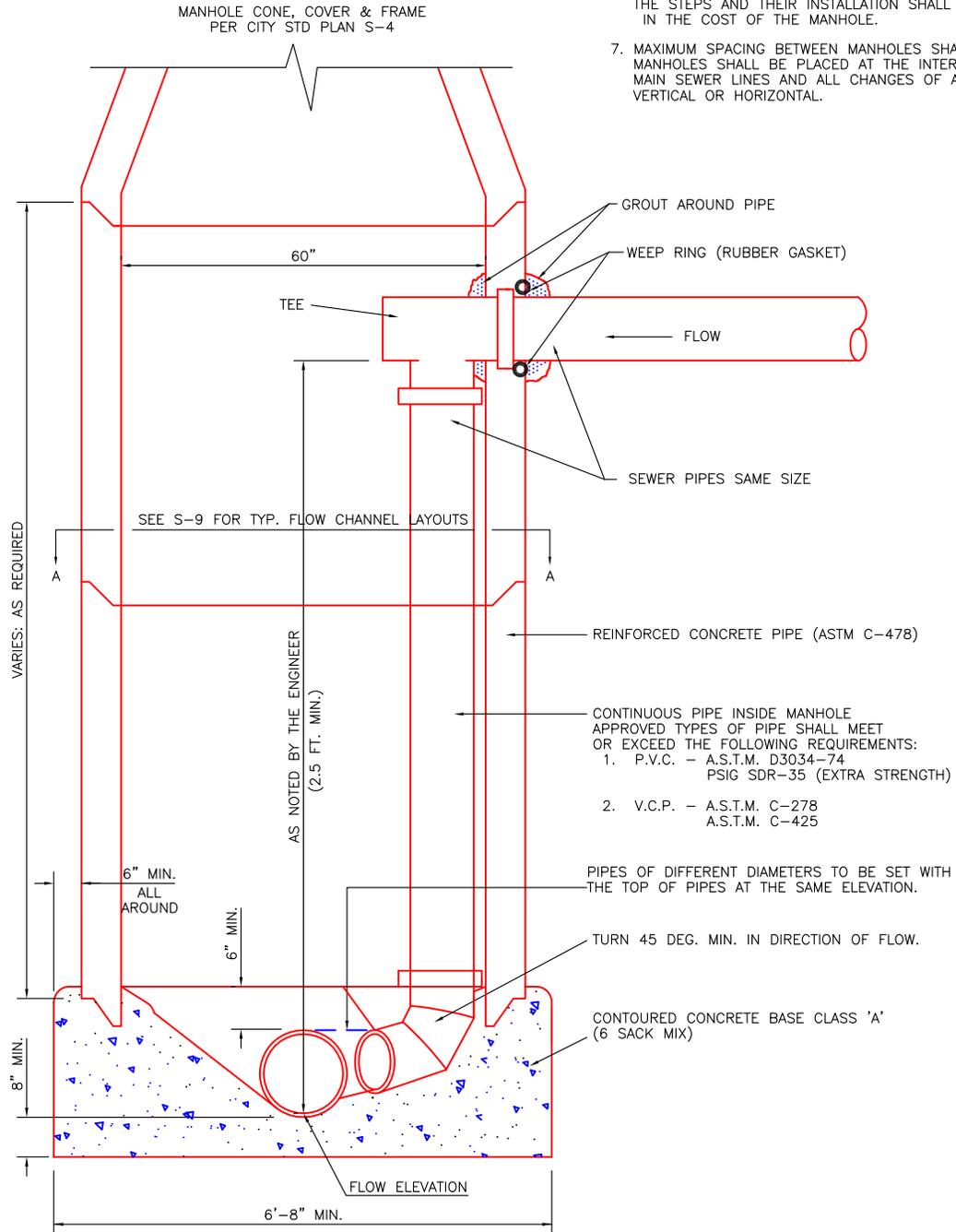
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CITY OF REEDLEY

S-4

NOTES:

1. DROP MANHOLE WILL ONLY BE ALLOWED WITH THE APPROVAL OF CITY ENGINEER.
2. DROP MANHOLE IS ALLOWED ONLY IF THE DROP DISTANCE IS 2.5 FT. OR GREATER.
3. ALL JOINTS BETWEEN PRECAST SECTIONS SHALL BE MORTARED MIXTURE SHALL BE 1 PART CEMENT TO 2 PARTS SAND.
4. MASTIC (KENTSEAL No.2 OR EQUAL) MAY BE SUBSTITUTED AT JOINTS. MASTIC SHALL COVER A MIN. OF 1/2 THE COMPRESSED SURFACE. INSIDE OF MANHOLE JOINT SHALL BE MORTARED TO A SMOOTH SURFACE.
5. PRECAST PIPE, ADJUSTING RINGS AND TAPERED SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C-478 USING TYPE II CEMENT.
6. IF THE DISTANCE BETWEEN THE FLOW LINE OF THE MANHOLE AND THE FINISHED GRADE OF THE LID IS GREATER THAN OR EQUAL TO 12 FT., THE MANHOLE IS TO BE CONSTRUCTED WITH STEPS (3/4" DIA. MILD STEEL BAR BENT HOT AND GALVANIZED AFTER BENDING) AND AN ECCENTRIC CONE. STEPS SHALL HAVE AN 18" WIDTH AND EPOXY GROUTED ON 15" CENTERS, EXCEPT THAT THE FIRST STEP SHALL BE 24" ABOVE THE FLOW LINE AND THE LAST STEP SHALL BE NO MORE THAN 10" BELOW THE FRAME. THE COST OF THE STEPS AND THEIR INSTALLATION SHALL BE INCLUDED IN THE COST OF THE MANHOLE.
7. MAXIMUM SPACING BETWEEN MANHOLES SHALL BE 600 L.F. MANHOLES SHALL BE PLACED AT THE INTERSECTION OF ALL MAIN SEWER LINES AND ALL CHANGES OF ALIGNMENT EITHER VERTICAL OR HORIZONTAL.



NOT TO SCALE

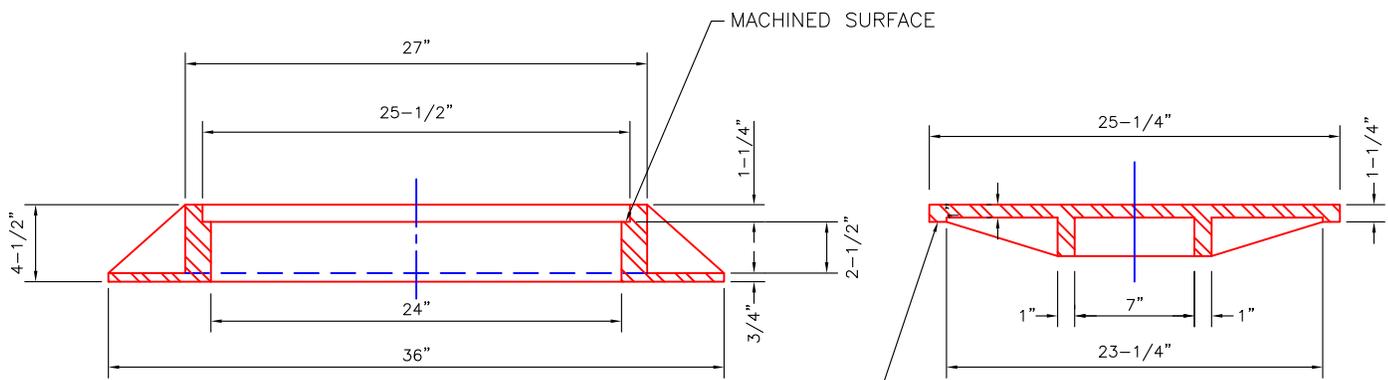
SEWER DROP MANHOLE

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NOV. 2015

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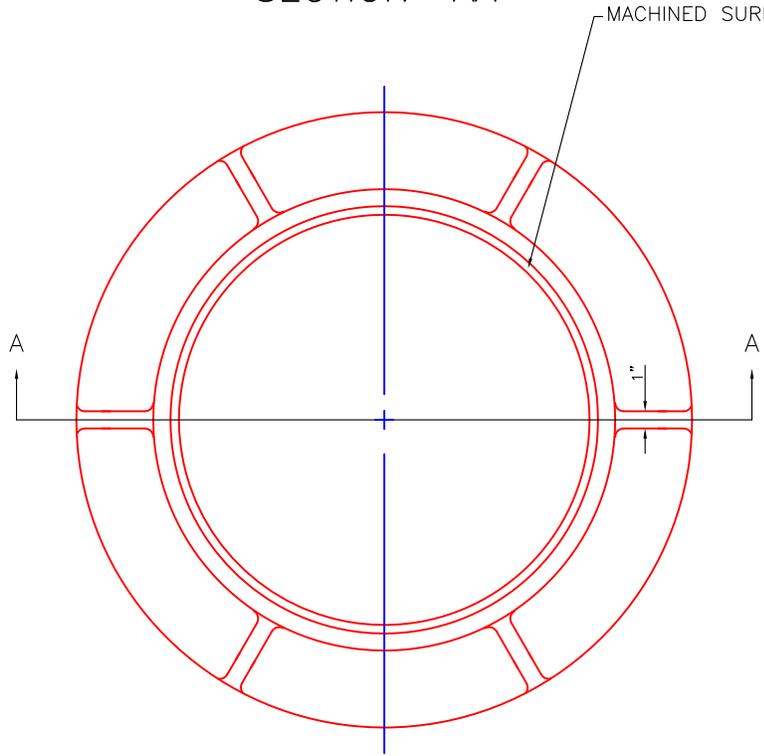
CITY OF REEDLEY

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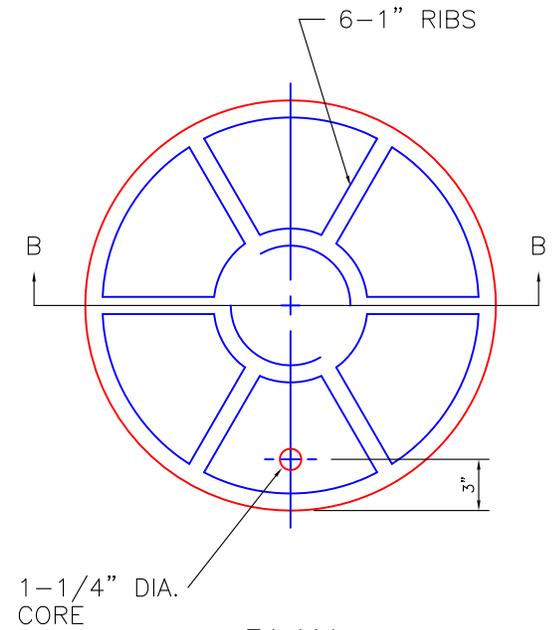
SECTION "AA"

SECTION "BB"



PLAN

MANHOLE FRAME



PLAN

MANHOLE COVER

NOTES:

1. ALL DIMENSIONS ARE FINISHED DIMENSIONS.
2. MATERIAL SHALL BE CAST IRON.
3. FRAME AND COVER TO BE CONSTRUCTED IN ACCORDANCE WITH A.S.T.M. DESIGNATION A48, CLASS 25.
4. MANHOLE COVER DESIGN, AS A MINIMUM, IS TO HAVE THE WORDS "STORM SEWER" OR "SANITARY SEWER" MOLDED INTO THE COVER.
5. FRAME AND COVER SHALL MATCH CROSS SLOPE.

NOT TO SCALE

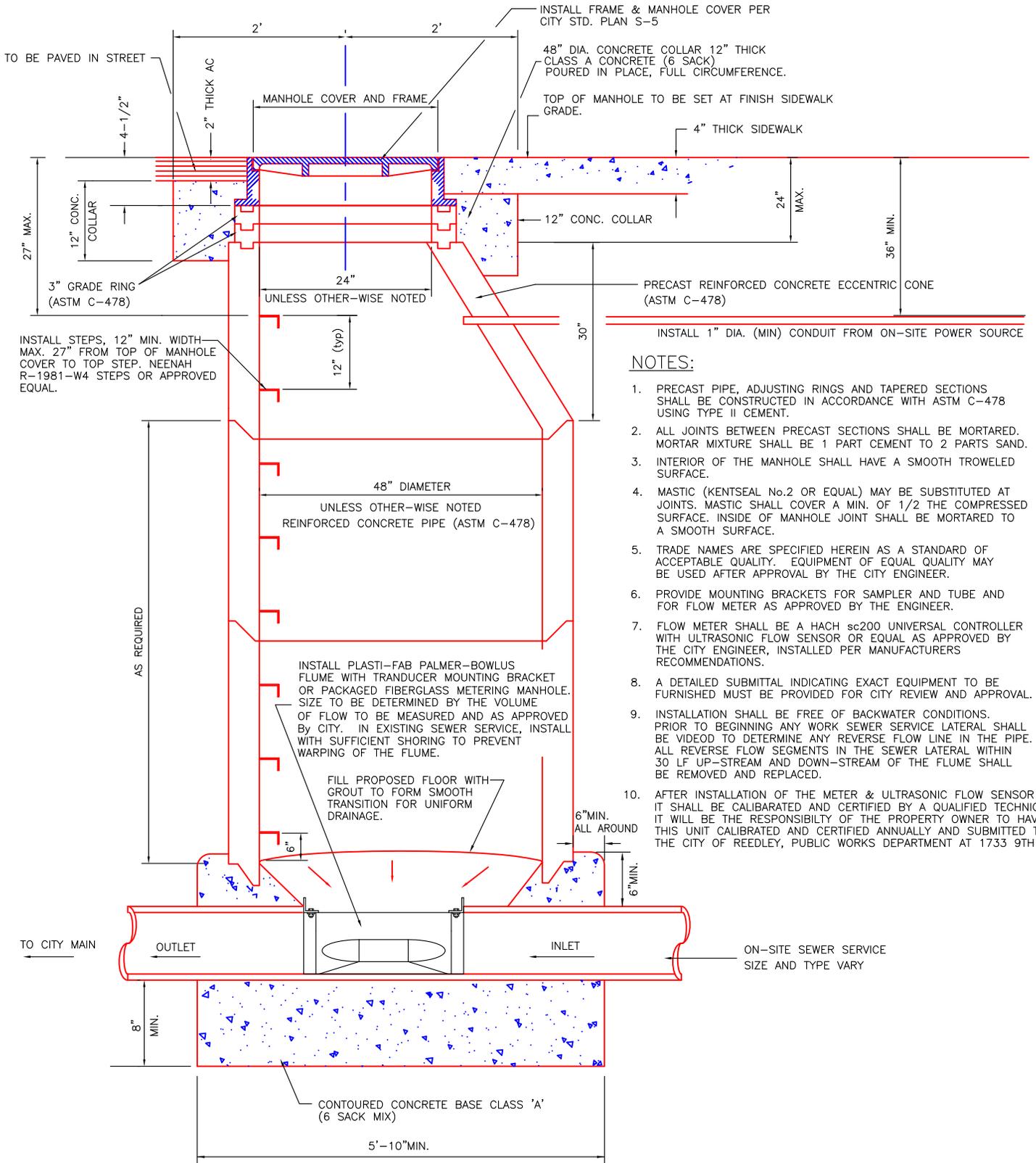
MANHOLE  
FRAME AND COVER

REVISIONS:  
NOV. 2015

DRAWN BY: kjp

CITY OF REEDLEY

S-6



**NOTES:**

1. PRECAST PIPE, ADJUSTING RINGS AND TAPERED SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C-478 USING TYPE II CEMENT.
2. ALL JOINTS BETWEEN PRECAST SECTIONS SHALL BE MORTARED. MORTAR MIXTURE SHALL BE 1 PART CEMENT TO 2 PARTS SAND.
3. INTERIOR OF THE MANHOLE SHALL HAVE A SMOOTH TROWELED SURFACE.
4. MASTIC (KENTSEAL No.2 OR EQUAL) MAY BE SUBSTITUTED AT JOINTS. MASTIC SHALL COVER A MIN. OF 1/2 THE COMPRESSED SURFACE. INSIDE OF MANHOLE JOINT SHALL BE MORTARED TO A SMOOTH SURFACE.
5. TRADE NAMES ARE SPECIFIED HEREIN AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
6. PROVIDE MOUNTING BRACKETS FOR SAMPLER AND TUBE AND FOR FLOW METER AS APPROVED BY THE ENGINEER.
7. FLOW METER SHALL BE A HACH sc200 UNIVERSAL CONTROLLER WITH ULTRASONIC FLOW SENSOR OR EQUAL AS APPROVED BY THE CITY ENGINEER, INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
8. A DETAILED SUBMITTAL INDICATING EXACT EQUIPMENT TO BE FURNISHED MUST BE PROVIDED FOR CITY REVIEW AND APPROVAL.
9. INSTALLATION SHALL BE FREE OF BACKWATER CONDITIONS. PRIOR TO BEGINNING ANY WORK SEWER SERVICE LATERAL SHALL BE VIDEOED TO DETERMINE ANY REVERSE FLOW LINE IN THE PIPE. ALL REVERSE FLOW SEGMENTS IN THE SEWER LATERAL WITHIN 30 LF UP-STREAM AND DOWN-STREAM OF THE FLUME SHALL BE REMOVED AND REPLACED.
10. AFTER INSTALLATION OF THE METER & ULTRASONIC FLOW SENSOR IT SHALL BE CALIBRATED AND CERTIFIED BY A QUALIFIED TECHNICIAN. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO HAVE THIS UNIT CALIBRATED AND CERTIFIED ANNUALLY AND SUBMITTED TO THE CITY OF REEDLEY, PUBLIC WORKS DEPARTMENT AT 1733 9TH ST.

NOT TO SCALE

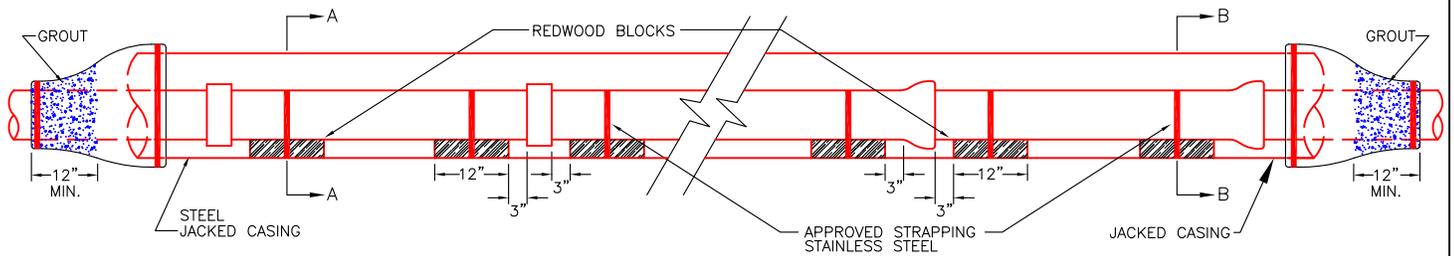
SEWER MONITORING  
MANHOLE

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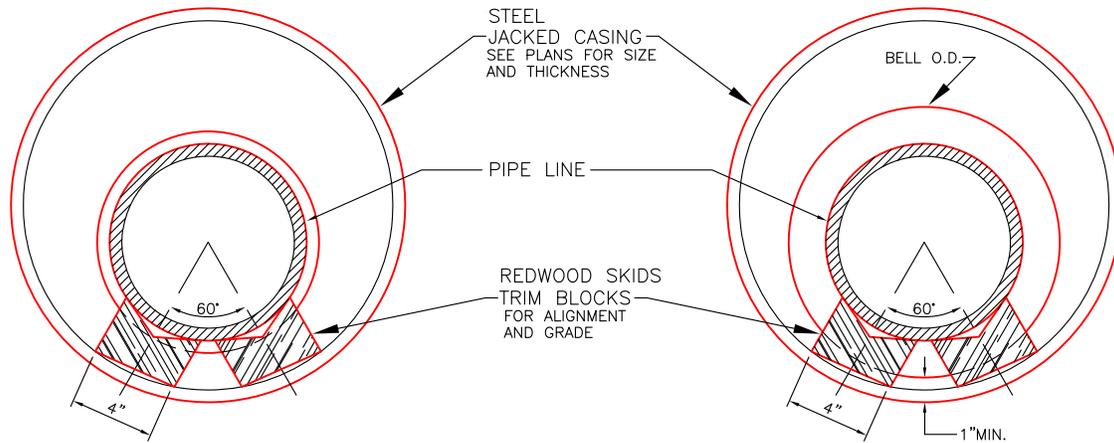
CITY OF REEDLEY

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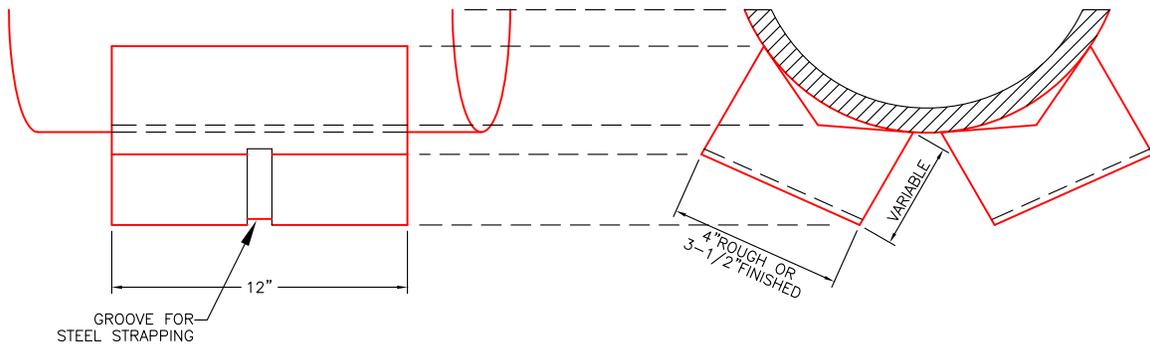
BELL-LESS PIPE

BELL PIPE



SECTION A-A

SECTION B-B



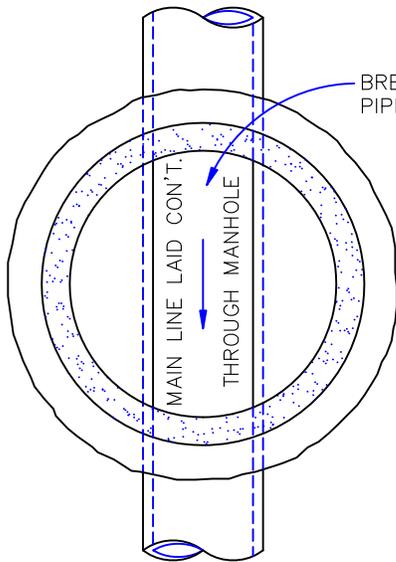
REDWOOD BLOCK DETAIL

NOTES:

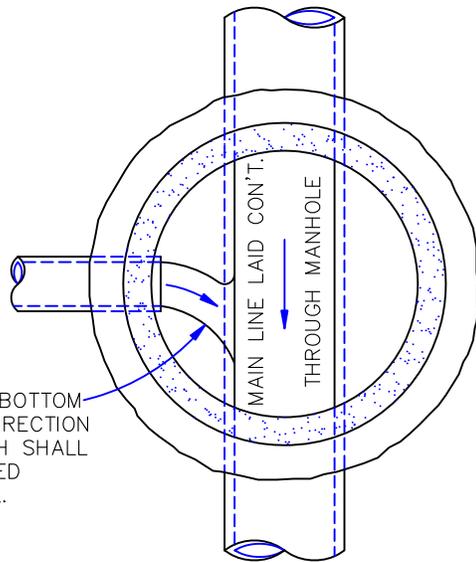
1. REDWOOD BLOCKS SHALL BE CONSTRUCTION GRADE.
2. REDWOOD BLOCKS SHALL BE VEED TO FIT CONTOUR OF PIPE.
3. WHEN JACKING CASING GRADE SHALL BE SET SO CENTERLINE OF CASING SHALL COINCIDE WITH CENTERLINE OF SEWER PIPE.
4. REDWOOD BLOCKS SHALL BE STRAPPED TO THE PIPE WITH STEEL STRAPPING OR APPROVED WIRE BANDS.
5. PLUG ENDS OF CASING WITH 12 INCHES MINIMUM OF CONCRETE.
6. CONCRETE SHALL BE CLASS B.

NOT TO SCALE

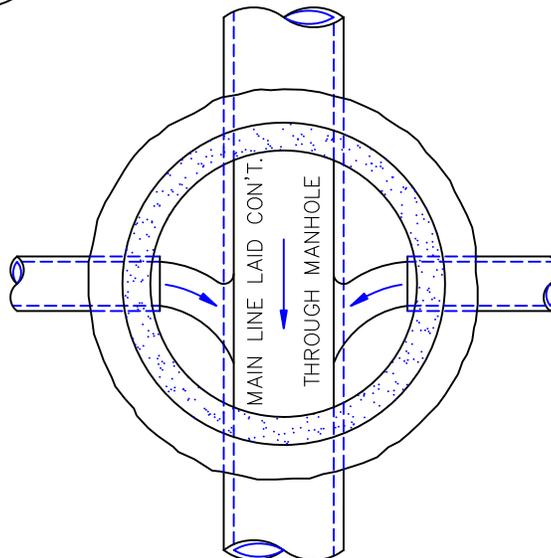
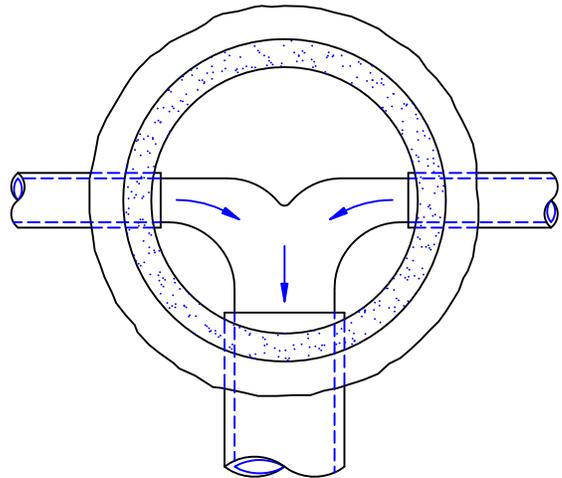
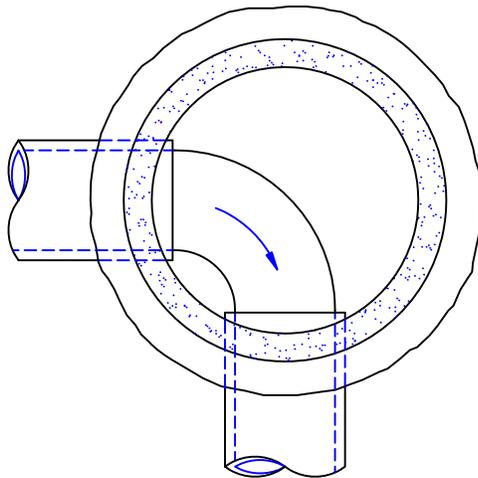
<p>INSTALLATION OF CARRIER PIPE IN JACKED STEEL CASING</p>	<p>REVISIONS: NOV. 2015</p>	<p>CITY OF REEDLEY</p>
	<p>DRAWN BY: kjp</p>	<p>S-8</p>



BREAK OUT TOP OF PIPE. TYPICAL.



FORM TROUGH IN BOTTOM OF MANHOLE IN DIRECTION OF FLOW. TROUGH SHALL BE STEEL TROWELED SMOOTH. TYPICAL.



NOT TO SCALE

TYPICAL FLOW CHANNELS  
FOR  
SEWER MANHOLES

REVISIONS:  
NOV. 2015

DRAWN BY: kjp

CITY OF REEDLEY

S-9

OUTSIDE COMMERCIAL AND INDUSTRIAL  
SAND, SILT, GREASE, OIL & GARBAGE INTERCEPTORS

1. THE SIZE AND DETAILS OF ALL INTERCEPTORS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA PLUMBING CODE, CURRENT EDITION. HEREINAFTER REFERRED TO AS CPC. ALL INTERCEPTORS SHALL BE SEALED AND WATER TIGHT.
2. INTERCEPTORS SHALL BE CONSTRUCTED AND VENTED IN ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE CPC.
3. THE LOCATION OF THE INTERCEPTOR SHALL BE APPROVED BY THE COMMUNITY DEVELOPMENT DEPARTMENT PRIOR TO CONSTRUCTION.
4. ALL CAST IN PLACE OR PRECAST INTERCEPTOR UNITS SHALL BE APPROVED BY THE COMMUNITY DEVELOPMENT DEPARTMENT PRIOR TO CONSTRUCTION.
5. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING ALL DOCUMENTATION & TESTING TO CERTIFY THAT THE INTERCEPTORS AND WASTE STREAMS MEETS THE REQUIREMENTS OF ALL CURRENT REGULATIONS AND THE COMMUNITY DEVELOPMENT DEPARTMENT REQUIREMENTS.
6. PRE-CAST INTERCEPTORS SHALL BE LABELED WITH THE MANUFACTURERS NAME, MODEL NUMBER AND SHALL HAVE AN I.A.P.M.O. CERTIFICATION MARK.
7. ALL CONCRETE FOR CAST-IN-PLACE INTERCEPTORS SHALL BE CLASS 2 CONCRETE IN ACCORDANCE WITH THE CITY OF REEDLEY STANDARD SPECIFICATIONS.
8. CAST IRON FRAMES MAY BE CAST INTO THE INTERCEPTOR LID.
9. ALL INTERCEPTORS SHALL BE ACCESSIBLE TO THE COMMUNITY DEVELOPMENT DEPARTMENT FOR TESTING AT ANY TIME.

CITY OF REEDLEY  
COMMUNITY DEVELOPMENT DEPARTMENT  
REEDLEY, CA 93654  
559-637-4200

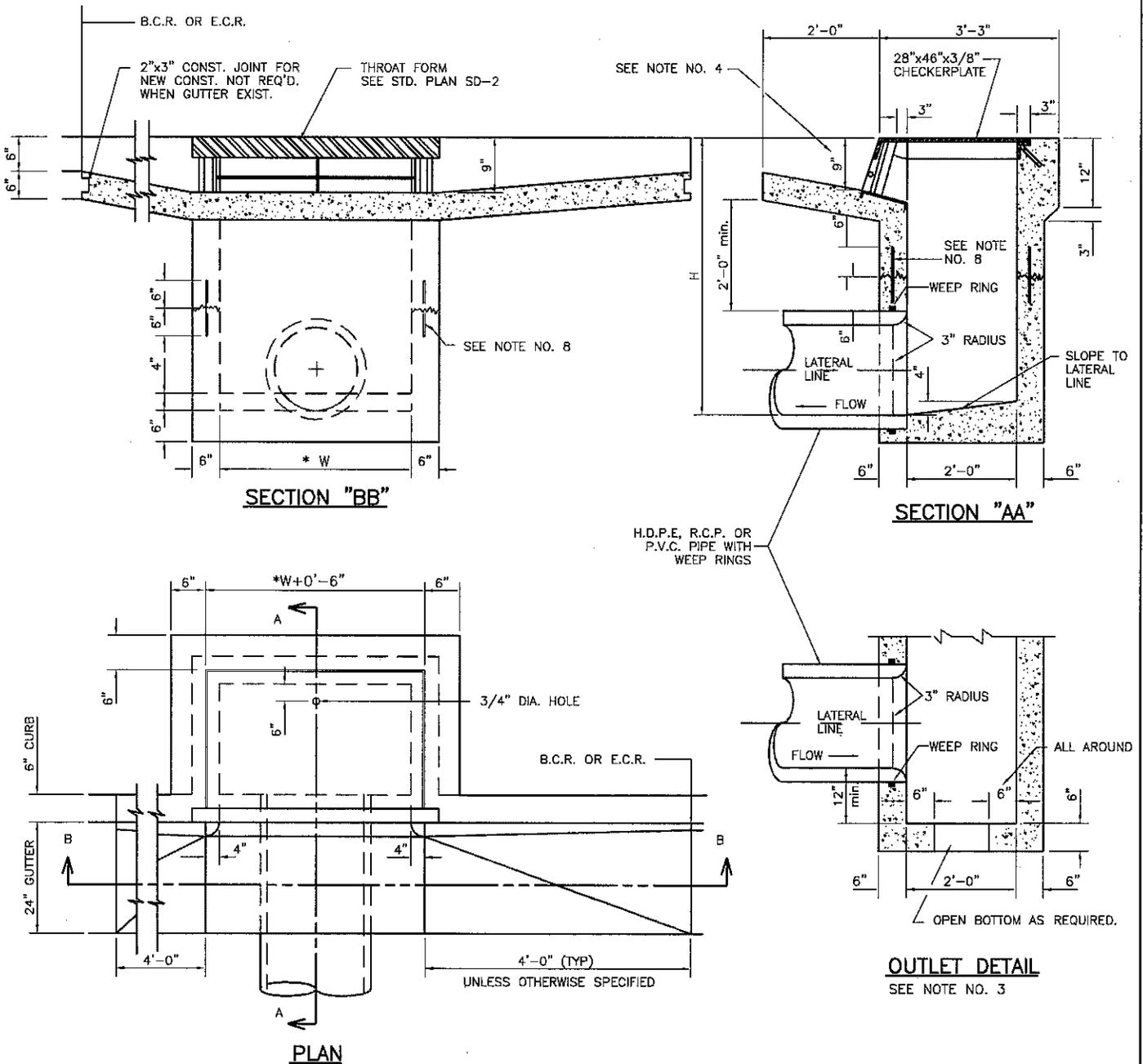
OUTSIDE COMMERCIAL &  
INDUSTRIAL SAND, SILT, GREASE,  
OIL & GARBAGE INTERCEPTORS

REVISIONS:  
NOV. 2015

DRAWN BY: kjp

CITY OF REEDLEY

S-10



\*W = 3'-6" UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER

B.C.R. OR E.C.R. = BEGIN CURB RETURN OR END OF CURB RETURN

**NOTES:**

1. THE INLET MAY BE MODIFIED SLIGHTLY TO MATCH EXISTING IMPROVEMENTS, AS DIRECTED BY THE ENGINEER.
2. STRUCTURE SHALL BE CLASS "A" 4000 PSI CONCRETE, MAX. 3-1/2" SLUMP. EXPOSED SURFACES SHALL BE BROOM FINISHED.
3. COST OF FRAME, GRATE, CURB AND GUTTER WITHIN LIMITS OF GUTTER DEPRESSION SHALL BE INCLUDED IN THE PRICE OF INLET OR OUTLET.
4. WHEN EMPLOYED AS OUTLET, CONSTRUCT OPEN BOTTOM, PLACE FRAME AND GRATE 6" BELOW TOP OF CURB GRADE, AND ELIMINATE 1/2" IRON ROD AND HANGERS.
5. CURB & GUTTER SHALL BE CONSTRUCTED OR RECONSTRUCTED FOR A DISTANCE OF 8'-0" AND COST THEREOF SHALL BE INCLUDED IN PRICE OF INLET OR OUTLET.
6. FLOOR OF THE INLET SHALL SLOPE FROM ALL WALLS TO THE LATERAL LINE AND SHALL BE GIVEN A STEEL-TROWELED FINISH.
7. AT THE CONTACT POINT BETWEEN THE LATERAL LINE AND THE INLET WALL A SMOOTH 3" RADIUS CURVE SHALL BE CONSTRUCTED.
8. IF INLET IS CONSTRUCTED IN A TWO STAGE POUR, PROVIDE A ROUGHENED CONSTRUCTION JOINT AND PLACE NO. 4 BARS 24" LONG, 12" O.C. IN EACH OF THE FOUR WALLS AS SHOWN.
9. NO. 4 REINFORCING BARS SHALL BE PLACED VERTICALLY AT 12" OC MAX. WITH NO. 4 HORIZONTAL REINFORCING TIE BARS AT 36" OC FOR H=6.5' OR MORE.

NOT TO SCALE

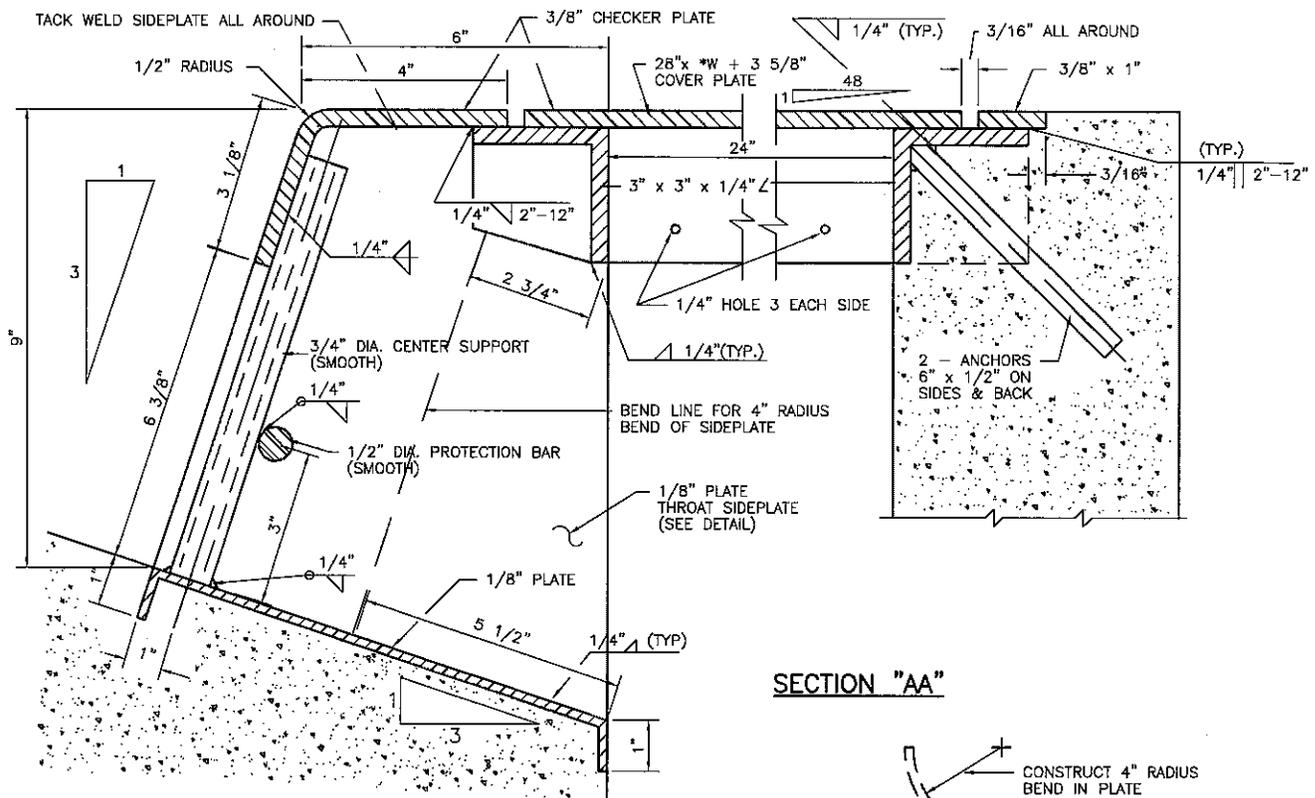
**TYPE "A"  
STORM DRAINAGE INLET**

REVISIONS:  
SEPT. 2016

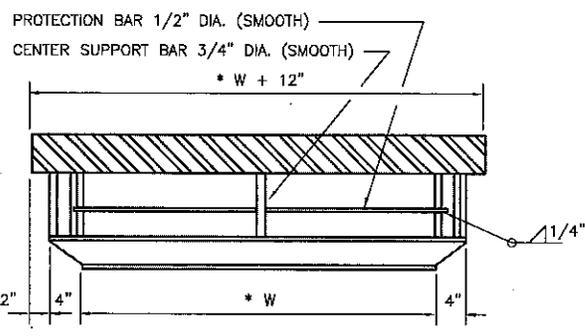
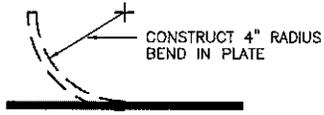
DRAWN BY: kjp

CITY OF REEDLEY

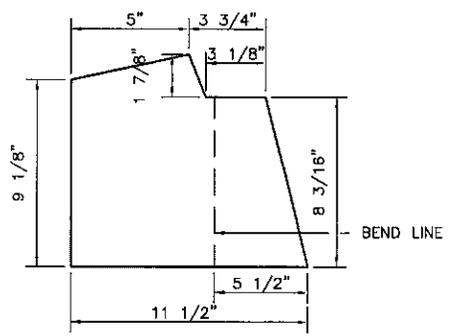
SD-1



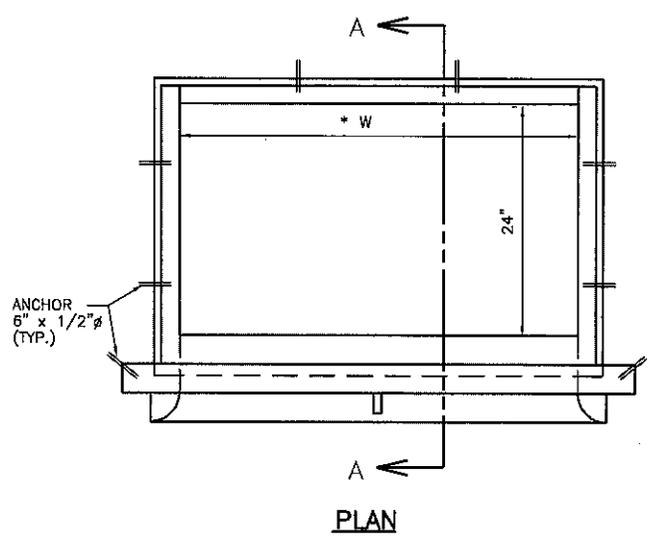
**SECTION "AA"**



**FRONT**



**1/8" STEEL PLATE  
THROAT SIDEPLATE  
DETAIL**



**PLAN**

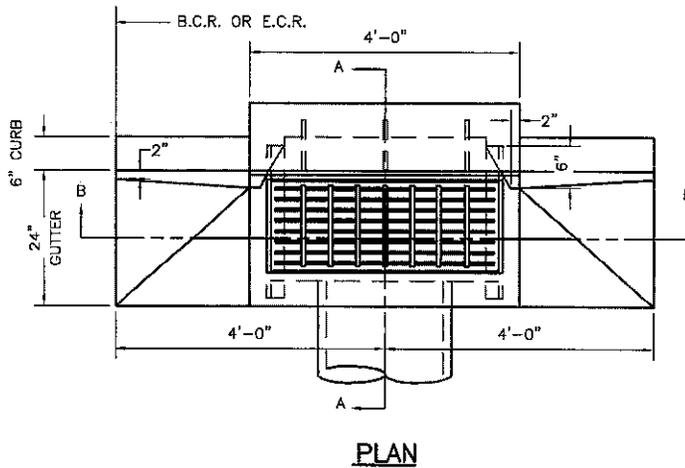
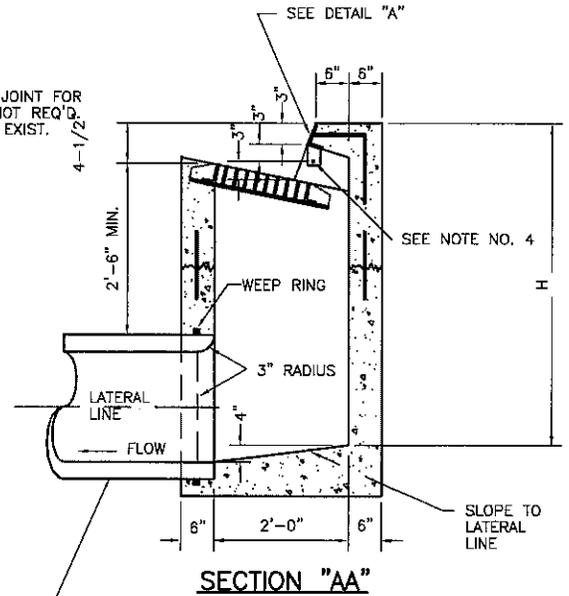
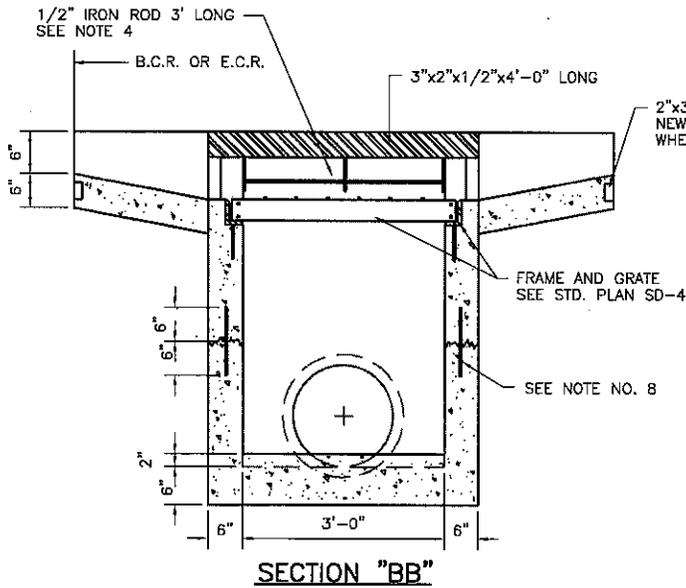
\*W = 3'-6" UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER OR AS NOTED ON THE PLANS.

**NOTES:**

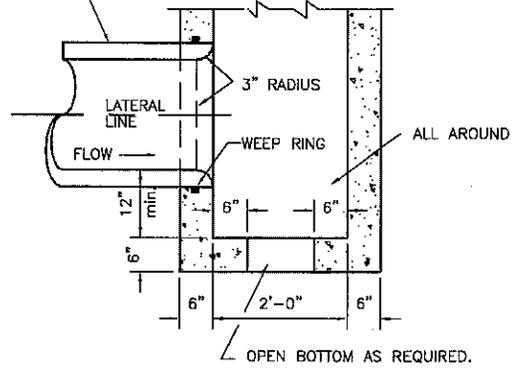
1. ALL DIMENSIONS ARE FINISHED DIMENSIONS.
2. ALL PARTS SHALL BE STRUCTURAL GRADE STEEL.
3. ALL EXPOSED METAL PARTS SHALL BE PAINTED OR DIPPED WITH ASPHALTUM PAINT.

NOT TO SCALE

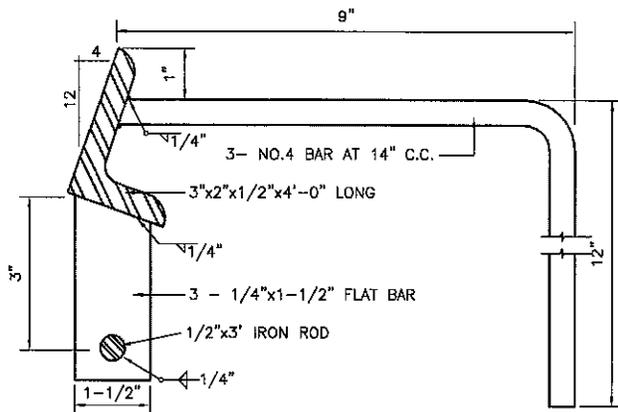
<p><b>TYPE "A"</b> <b>STORM DRAIN INLET</b> <b>THROAT FORM &amp; FRAME</b></p>	<p>REVISIONS: SEPT. 2016</p> <hr/> <p>DRAWN BY: kjp</p>	<p>CITY OF REEDLEY</p> <p><b>SD-2</b></p>
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TYPE III R.C.P. OR  
P.V.C. PIPE WITH  
WEEP RINGS



B.C.R. OR E.C.R. = BEGIN CURB RETURN OR END OF CURB RETURN



NOTES:

1. THE INLET MAY BE MODIFIED SLIGHTLY TO MATCH EXISTING IMPROVEMENTS, AS DIRECTED BY THE ENGINEER.
2. STRUCTURE SHALL BE CLASS "A" 4000 PSI CONCRETE. EXPOSED SURFACES SHALL BE FINISHED AS PER CURB SPECIFICATIONS.
3. COST OF FRAME AND GRATE, AND CURB AND GUTTER WITHIN LIMITS OF GUTTER DEPRESSION SHALL BE INCLUDED IN PRICE OF INLET OR OUTLET.
4. WHEN EMPLOYED AS OUTLET, CONSTRUCT OPEN BOTTOM, PLACE FRAME AND GRATE 6" BELOW TOP OF CURB GRADE, AND ELIMINATE 1/2" IRON ROD AND HANGERS.
5. CURB AND GUTTER SHALL BE CONSTRUCTED OR RECONSTRUCTED FOR A DISTANCE OF 8'-0" AND COST THEREOF SHALL BE INCLUDED IN PRICE OF INLET OR OUTLET.
6. FLOOR OF THE INLET SHALL SLOPE FROM ALL WALLS TO THE LATERAL LINE AND SHALL BE GIVEN A STEEL-TROWELED FINISH.
7. AT THE CONTACT POINT BETWEEN THE LATERAL LINE AND THE INLET WALL A SMOOTH 3" RADIUS CURVE SHALL BE CONSTRUCTED.
8. IF INLET IS CONSTRUCTED IN A TWO STAGE POUR, PROVIDE A ROUGHENED CONSTRUCTION JOINT AND PLACE ONE NO. 4 BAR 12" LONG IN EACH OF THE FOUR WALLS AS SHOWN.
9. NO. 4 REINFORCING BARS SHALL BE PLACED VERTICALLY AT 12" O.C. MAX. WITH NO. 4 HORIZONTAL REINFORCING TIE BARS AT 36" O.C. FOR H=8.5" OR MORE.

NOT TO SCALE

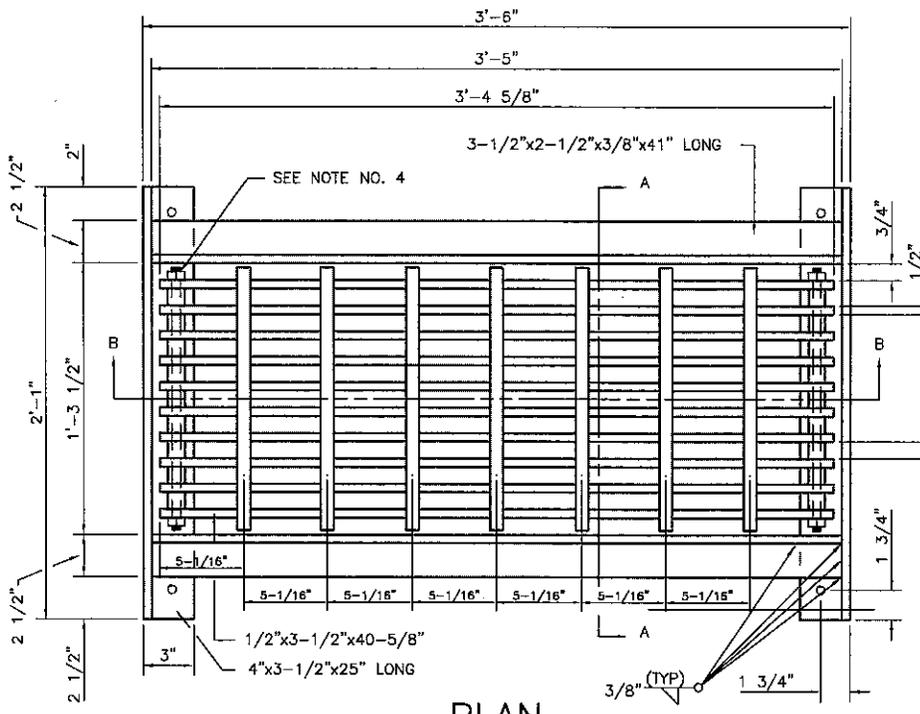
TYPE "B"  
STORM DRAINAGE INLET

REVISIONS:  
SEPT. 2016

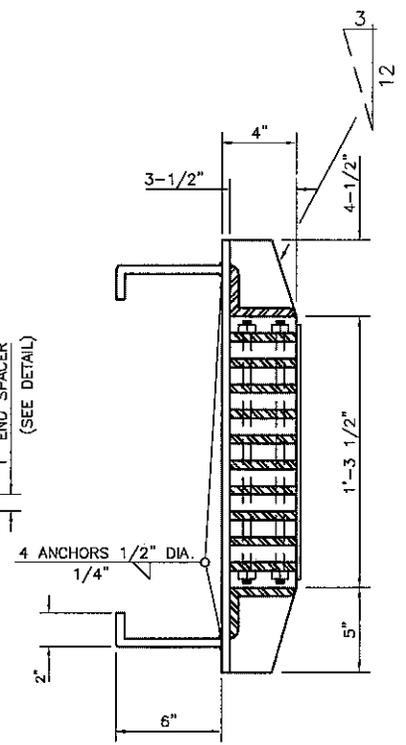
DRAWN BY: kjp

CITY OF REEDLEY

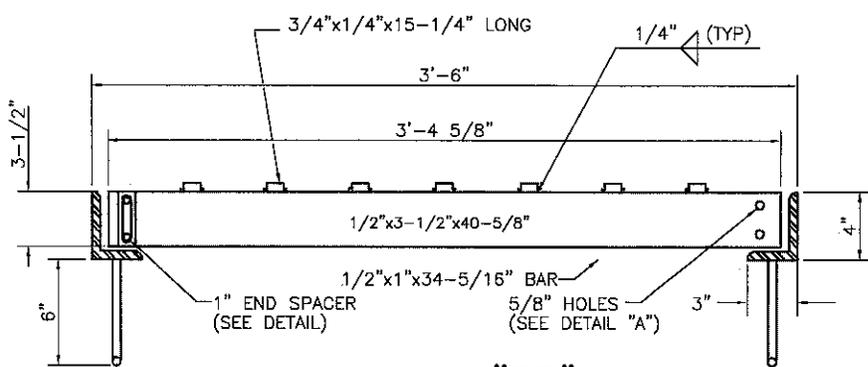
SD-3



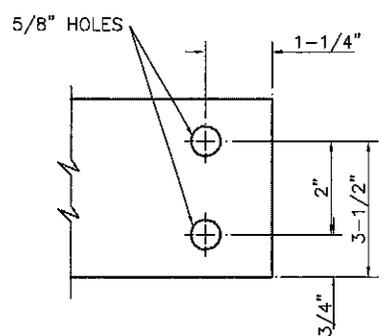
PLAN



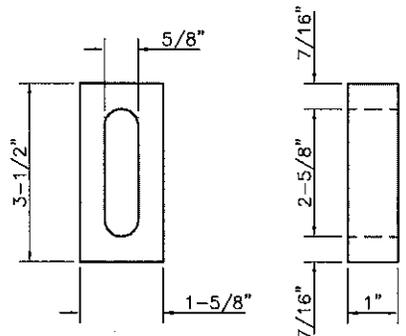
SECTION "AA"



SECTION "BB"



DETAIL "A"



END SPACER

**NOTES:**

1. ALL DIMENSIONS ARE FINISHED DIMENSIONS.
2. ALL PARTS SHALL BE OF STRUCTURAL GRADE STEEL.
3. ALL EXPOSED METAL PARTS SHALL BE PAINTED OR DIPPED WITH AN ASPHALTUM PAINT.
4. 2-1/2"x15-3/8" STEEL RODS. ONE NUT ON EACH END. TACK WELD NUTS TO ADJACENT BARS AFTER ASSEMBLY, ON EACH SIDE.

NOT TO SCALE

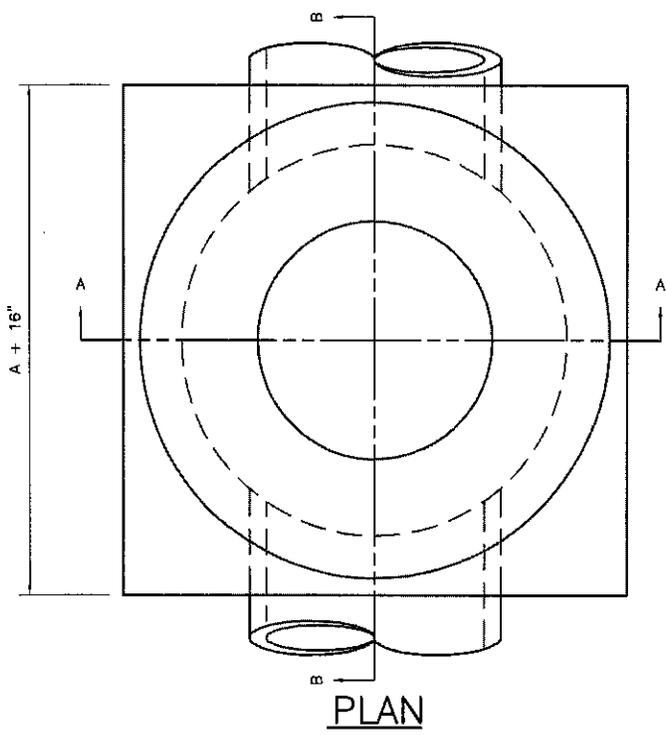
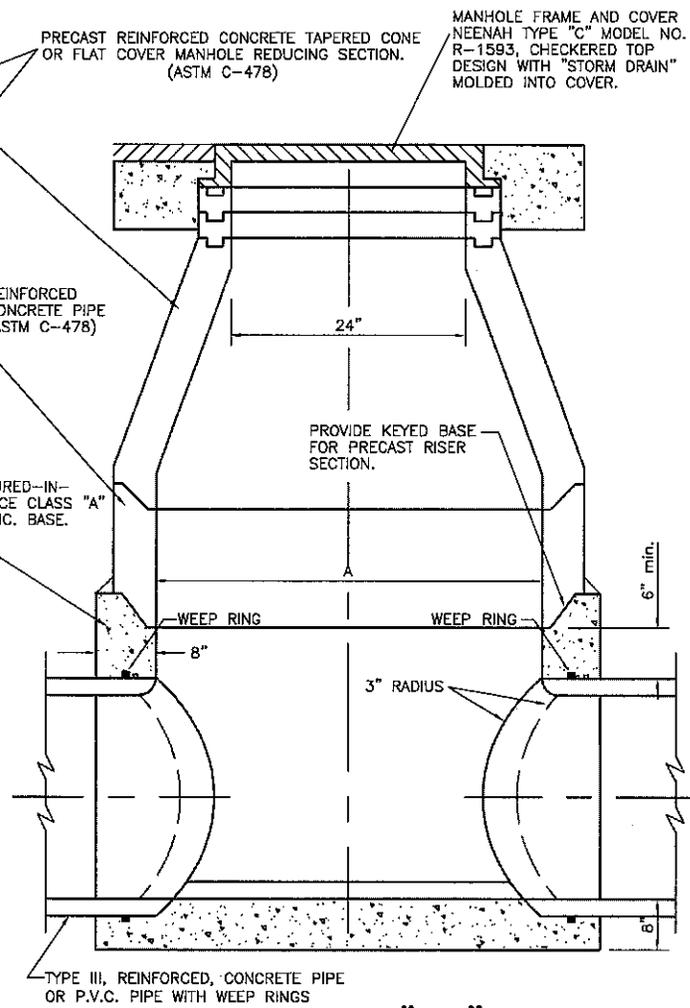
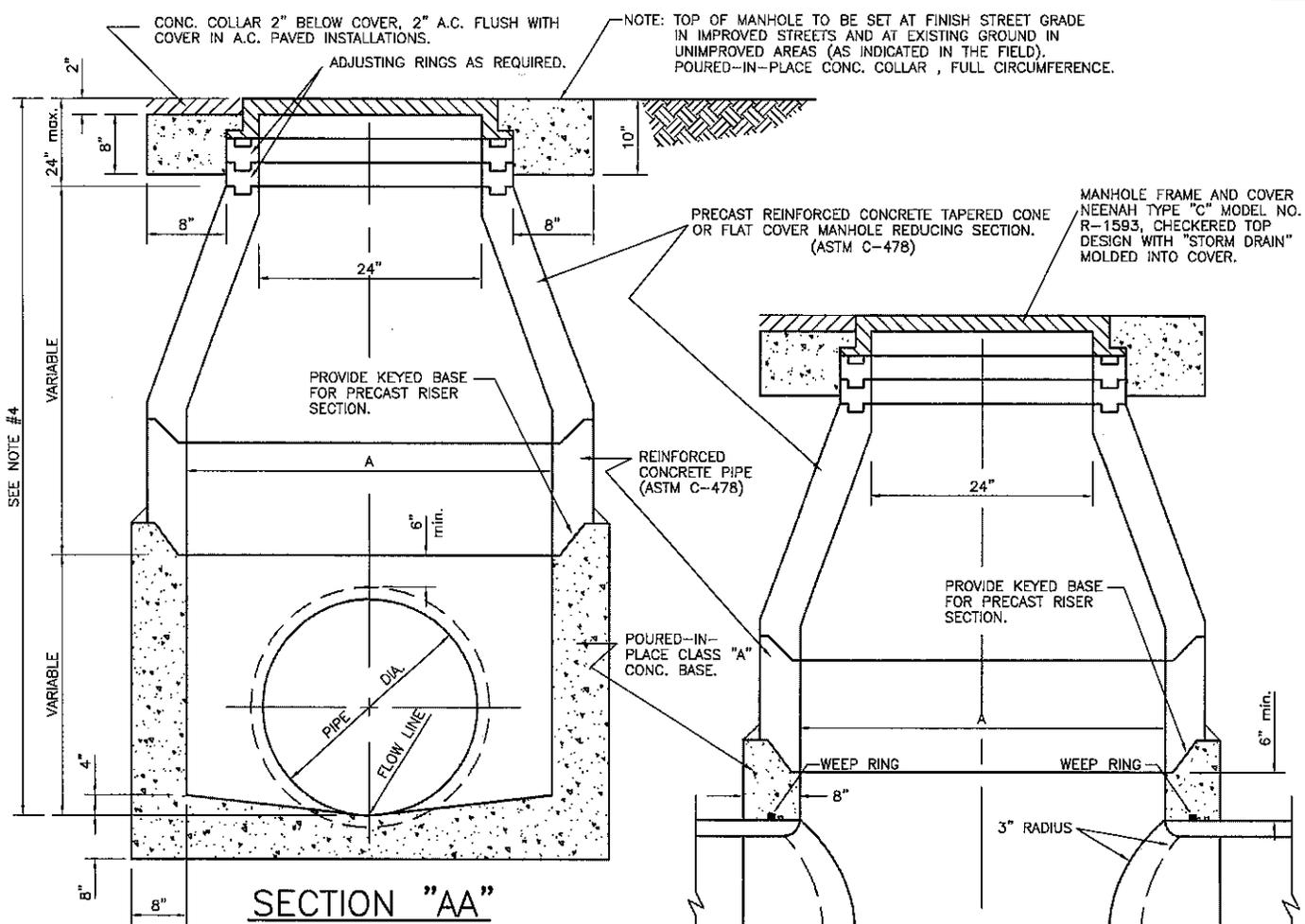
TYPE "B" INLET  
FRAME AND GRATE

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

SD-4



**STANDARD MANHOLE**

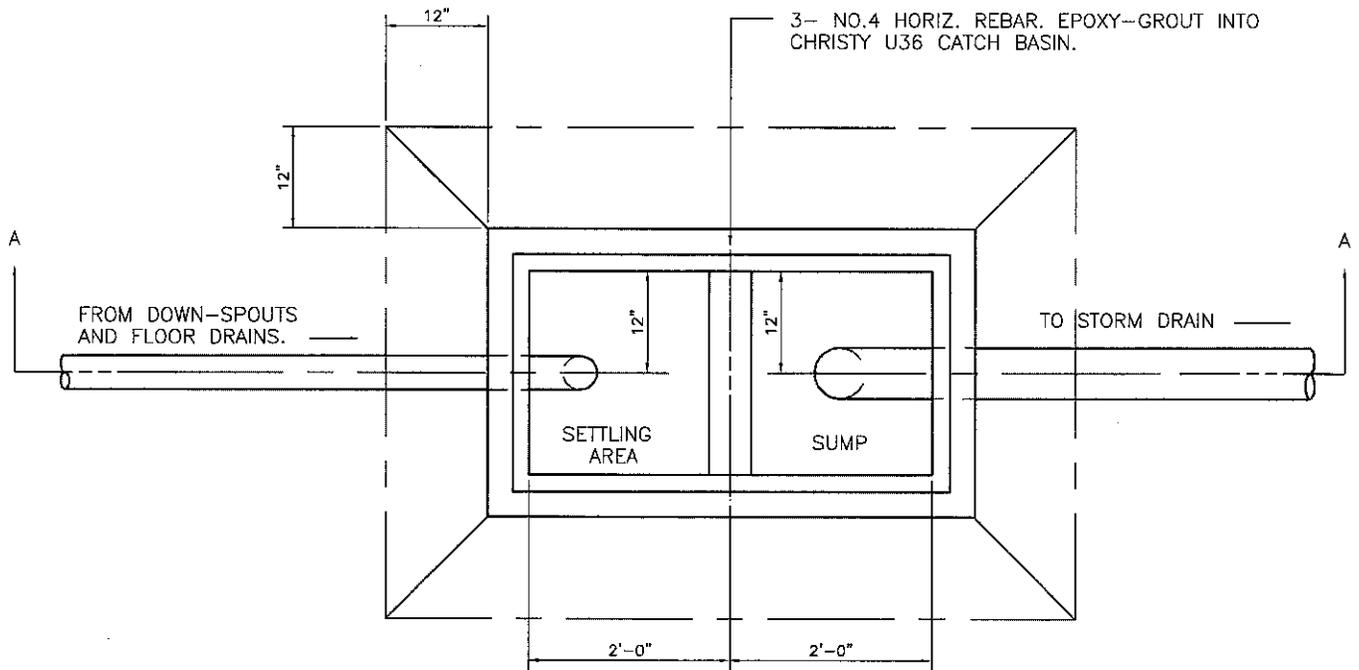
- CASE I A = 48"
- CASE II A = 60"
- CASE III A = 72"

**NOTES:**

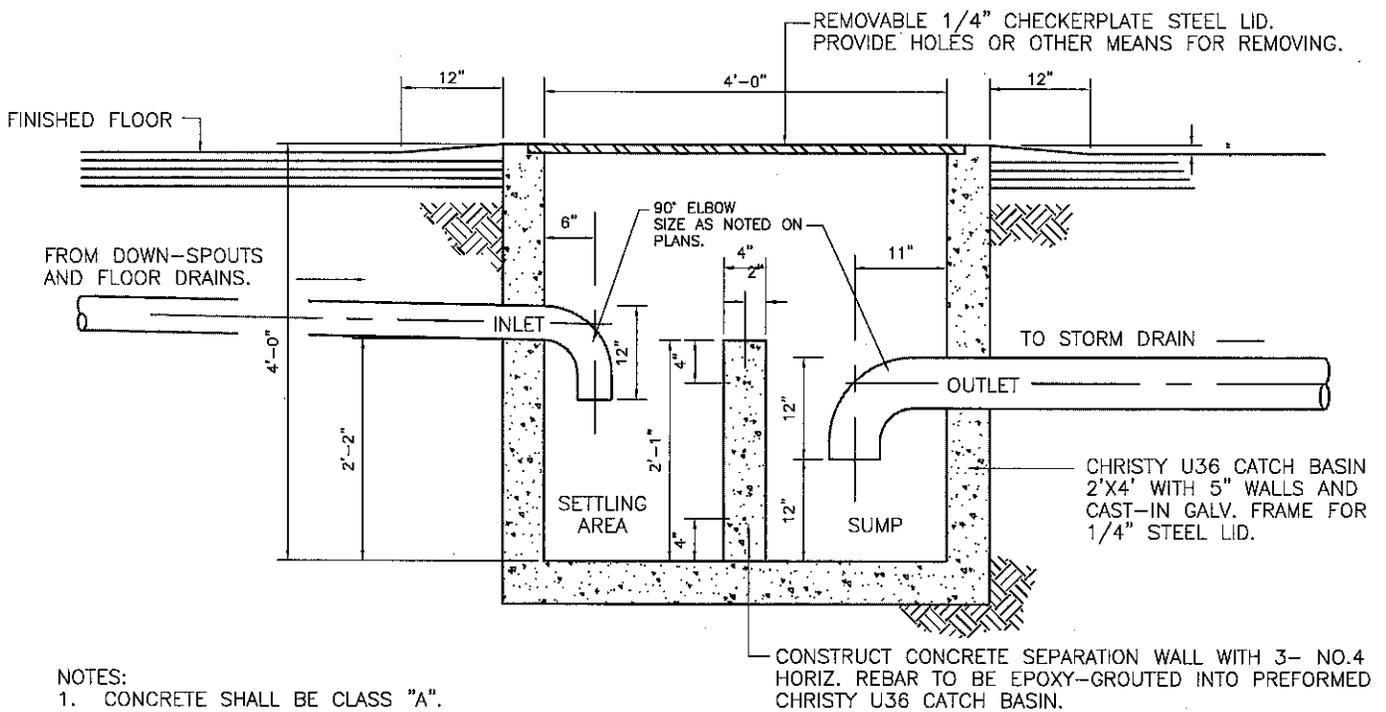
1. PRECAST PIPE, ADJUSTING RINGS AND TAPERED SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C-478 USING TYPE II CEMENT.
2. ALL JOINTS BETWEEN PRECAST SECTIONS SHALL BE MORTARED.
3. INTERIOR OF THE MANHOLE SHALL HAVE A SMOOTH TROWELED SURFACE.
4. IF THE DISTANCE BETWEEN THE FLOW LINE OF THE MANHOLE AND THE FINISHED GRADE OF THE LID IS GREATER THAN OR EQUAL TO 12 FT., THE MANHOLE IS TO BE CONSTRUCTED WITH STEPS (3/4" DIA. MILD STEEL BAR BENT HOT AND GALVANIZED AFTER BENDING) AND AN ECCENTRIC CONE. STEPS SHALL HAVE AN 18" WIDTH AND EPOXY GROUTED ON 15" CENTERS, EXCEPT THAT THE FIRST STEP SHALL BE 24" ABOVE THE FLOW LINE AND THE LAST STEP SHALL BE NO MORE THAN 10" BELOW THE FRAME. THE COST OF THE STEPS AND THEIR INSTALLATION SHALL BE INCLUDED IN THE COST OF THE MANHOLE.

NOT TO SCALE

STORM DRAIN MANHOLE	REVISIONS: SEPT. 2016	CITY OF REEDLEY
	DRAWN BY: kjp	SD-5



PLAN



SECTION "AA"

NOTES:

1. CONCRETE SHALL BE CLASS "A".
2. ELEVATE INLET FULL PIPE DIAMETER ABOVE OUTLET.

NOT TO SCALE

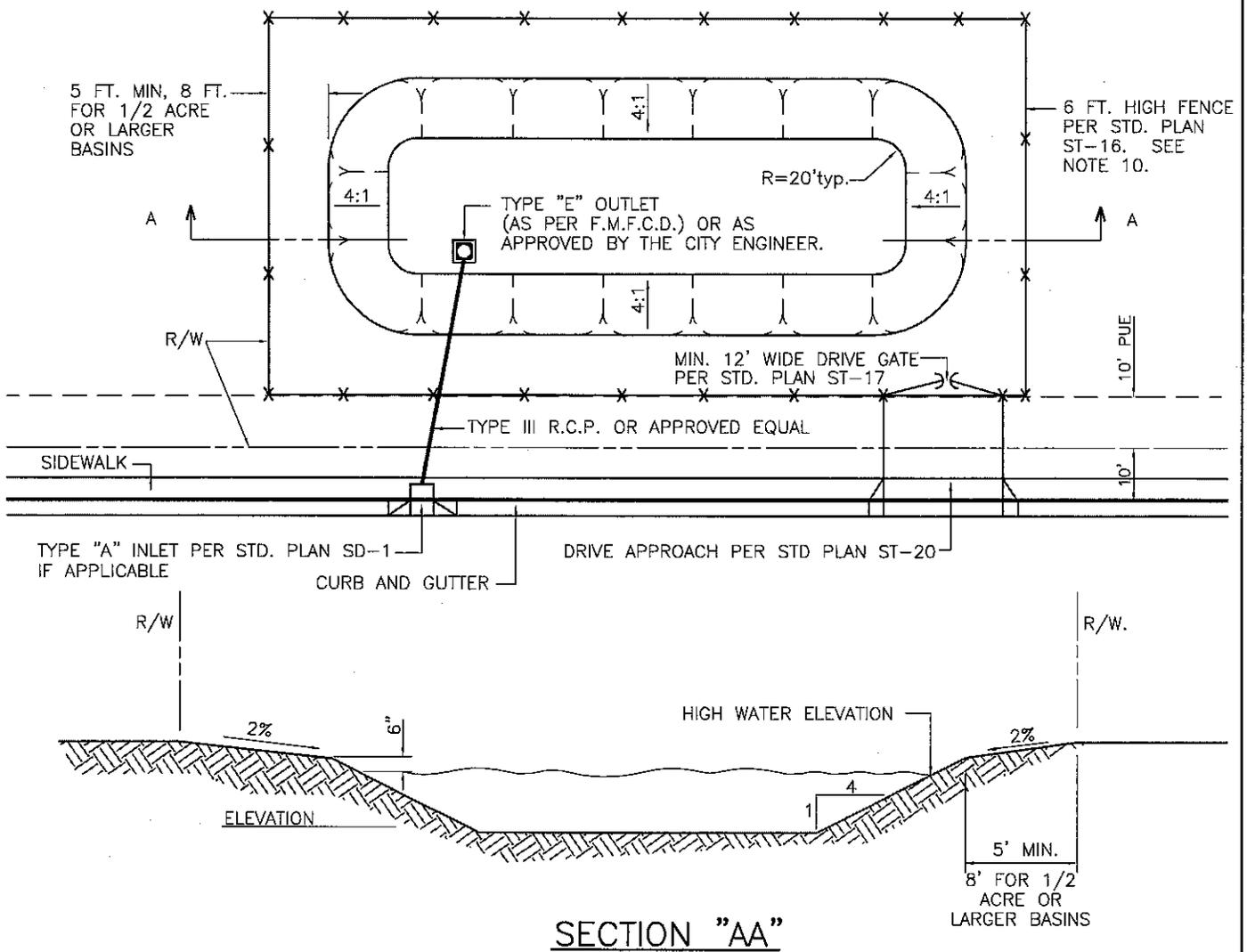
SAND TRAP

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

SD-6



**SECTION "AA"**

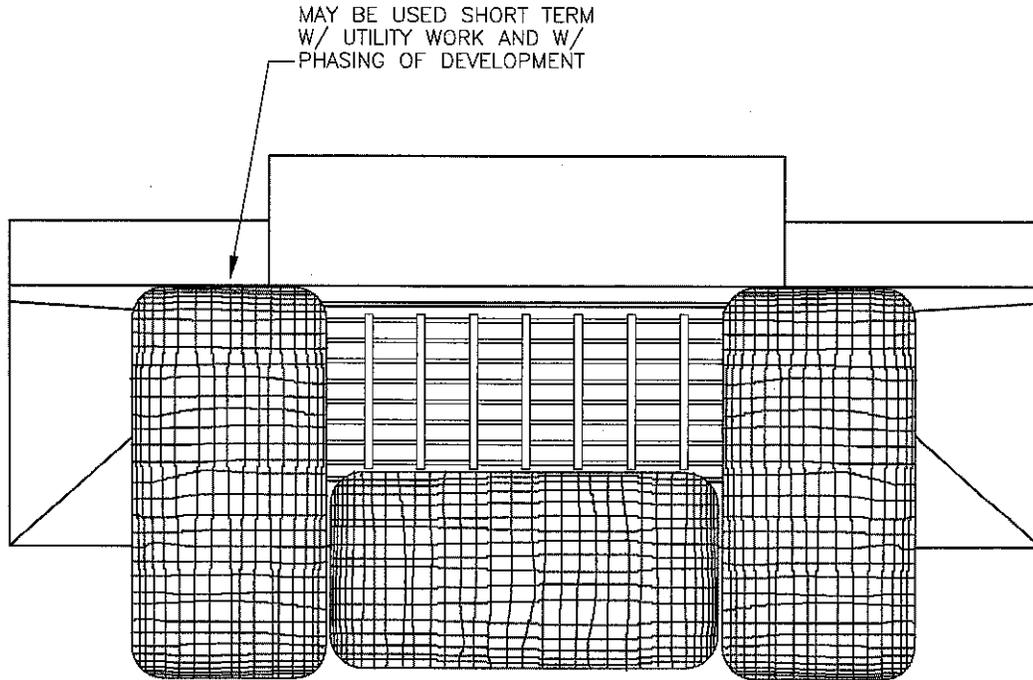
**NOTES: DESIGN MINIMUMS**

1. OVERFLOW MUST BE TO THE STREET, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. DESIGN WATER SURFACE ELEVATION SHALL BE 6" INCHES BELOW THE LOWEST INLET FLOW LINE OR POND PERIPHERAL ELEVATION, WHICHEVER IS LOWER.
3. REQUIRED CAPACITY:  $V = C I A$  WHERE,
  - V = REQUIRED BASIN CAPACITY IN CUBIC FEET
  - C = RUNOFF COEFFICIENT
  - I = RAINFALL FROM A DESIGN STORM (0.28" / 5YR.- 10 DAY STORM MIN.)
  - A = TRIBUTARY AREA IN SQUARE FEET.
4. PROVIDE COMPOSITE "C" CALCULATIONS.
5. EIGHT (8') FOOT WIDE VEHICLE RAMP WITH A MAX. SLOPE OF 15% REQUIRED IN 1/2 ACRE OR LARGER BASINS.
6. TEMPORARY PONDING BASINS SHALL BE FENCED WITHIN SEVEN (7) DAYS TIME AFTER THEY BECOME OPERATIONAL.
7. BASIN SHALL BE SIZED TO HANDLE THE REQUIRED STORAGE VOLUME WITHOUT EXCEEDING AN EXCAVATION DEPTH OF TWELVE (12') FEET.
8. ADEQUATE AREA AT THE FLOOR OF THE BASIN SHALL BE PROVIDED FOR MANEUVERING MAINTENANCE EQUIPMENT.
9. LANDSCAPING OF THE BASIN MAY NOT BE NECESSARY IF SCREENED FENCING IS PROVIDED; HOWEVER, LANDSCAPING TREATMENT BETWEEN THE FENCE & THE STREET MAY BE REQUIRED.
10. FENCING IS NOT REQUIRED ON BASINS WHERE THE MAX. POSSIBLE WATER DEPTH DOES NOT EXCEED 18" & THE SIDE SLOPES ARE 6 TO 1 OR FLATTER.
11. A SOIL BORING LOG TO A DEPTH OF NOT LESS THAN 30 FEET SHALL BE SUBMITTED TO THE CITY ENGINEER.

NOT TO SCALE

<p><b>TEMPORARY PONDING BASIN</b></p>	<p>REVISIONS: SEPT. 2016</p> <hr/> <p>DRAWN BY: kjp</p>	<p>CITY OF REEDLEY</p> <p><b>SD-7</b></p>
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THE DEVELOPER SHALL INCORPORATE DUST AND EROSION CONTROL MEASURES INTO THE CONSTRUCTION PHASE OF THE PROJECT. THE CITY ENGINEER SHALL REVIEW AND APPROVE SAID MEASURES PRIOR TO THE ISSUANCE OF BUILDING OR ENCROACHMENT PERMITS. THE APPLICANT'S CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT SILT AND OTHER SEDIMENTATION FROM ENTERING THE CITY OF REEDLEY'S STORM DRAINAGE & SEWER SYSTEMS. SUCH PRECAUTIONS SHOULD GENERALLY CONFORM TO THE LATEST EDITION OF THE CALTRANS STORMWATER QUALITY HANDBOOK & SECTION 14 OF 2010 CALTRANS STANDARD SPECIFICATIONS. SUCH PRECAUTIONS AND DETAILS SHALL BE NOTED OR SHOWN ON THE GRADING AND DRAINAGE IMPROVEMENT PLANS AND ARE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.



BIOFILTER BAGS  
TEMPORARY

CATCH BASIN

NOT TO SCALE

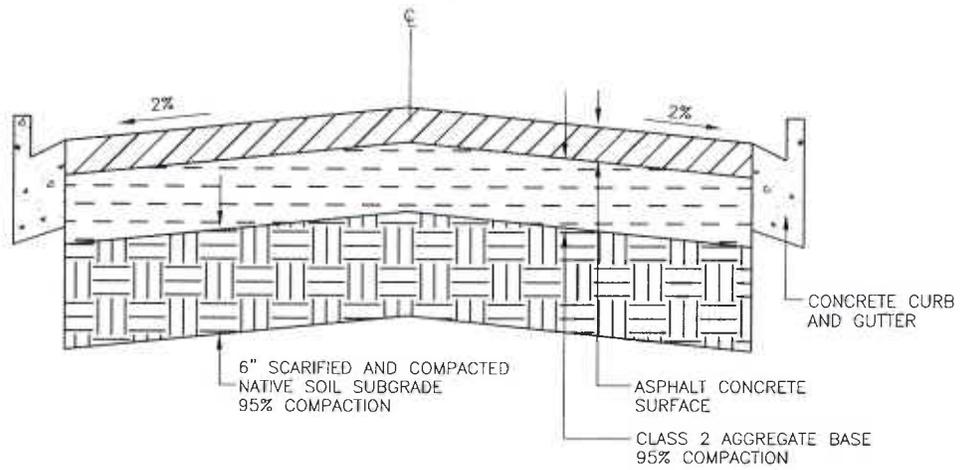
EROSION CONTROL

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

SD-8



TYPICAL STREET STRUCTURAL CROSS SECTION

TRAFFIC INDICES AND MINIMUM PAVEMENT SECTIONS

CLASS OF STREET	TRAFFIC INDEX "R" VALUE	MIN. AC	MIN. AB
MAJOR ARTERIAL	9	5.5"	6"
ARTERIAL	8	5"	6"
INDUSTRIAL OR COMMERCIAL COLLECTOR	7	4.5"	6"
LOCAL COLLECTOR OR BOULEVARD	6	3"	6"
LOCAL	5	2.5"	4"
ALLEY	4	2"	4"

NOTES:

1. ALL STREET STRUCTURAL PAVEMENT SECTIONS SHALL BE BASED ON "R" VALUE TESTS & CHAPTER 600 OF THE HIGHWAY DESIGN MANUAL.
2. STREET STRUCTURAL PAVEMENT SECTION CALCULATIONS SHALL BE SUBMITTED TO & APPROVED BY CITY ENGINEER.
3. A SAFETY FACTOR OF 0.2 SHALL BE APPLIED IN PAVEMENT CALCULATIONS.
4. SOIL TEST DATA USED IN THE DESIGN CALCULATIONS SHALL BE FURNISHED BY A SOILS TESTING LABORATORY REPORT TO BE SIGNED AND SEALED BY A CA REGISTERED CIVIL ENGINEER.

NOT TO SCALE

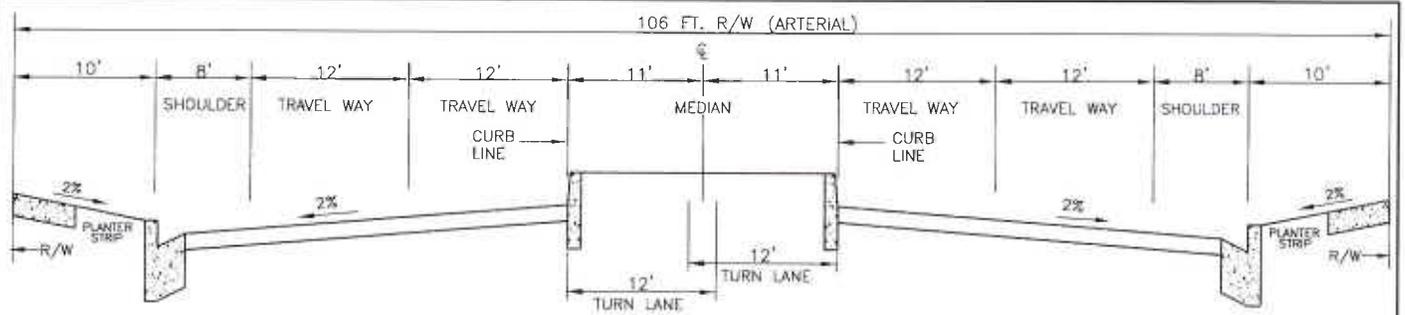
STREET STRUCTURAL SECTIONS

REVISIONS:  
SEPT. 2016

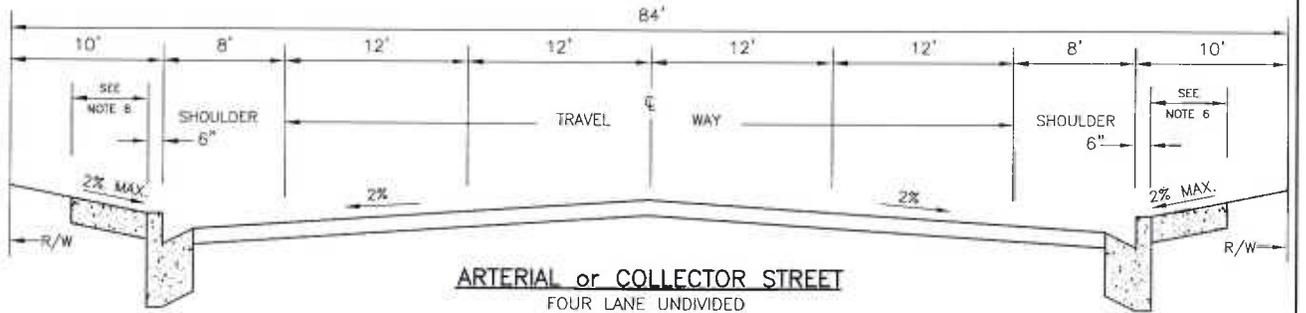
DRAWN BY: kjp

CITY OF REEDLEY

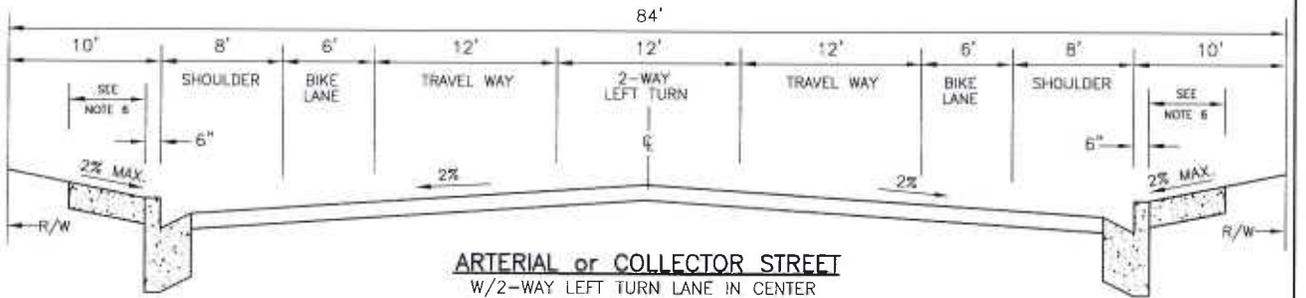
ST-1



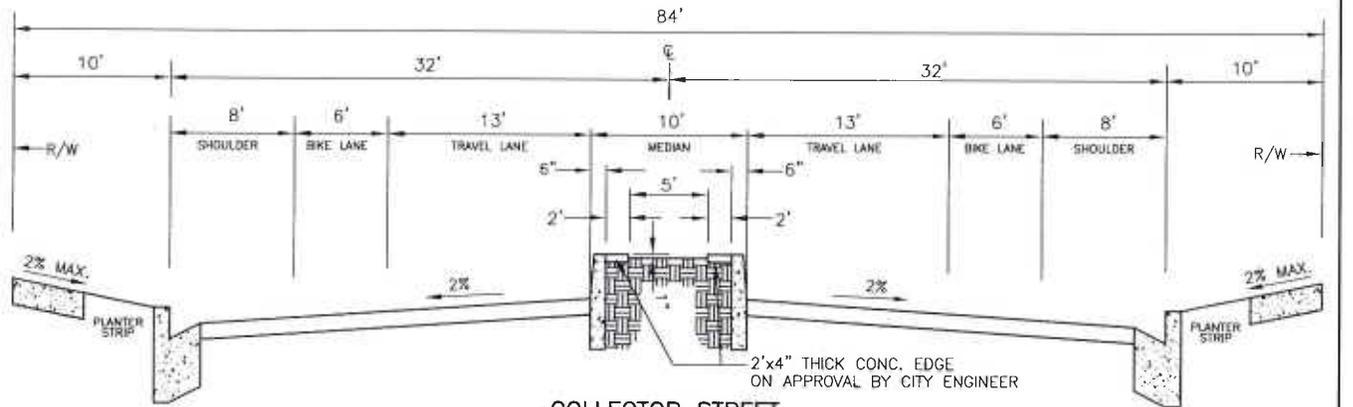
**MAJOR ARTERIAL STREETS 4 LANE DIVIDED**



**ARTERIAL or COLLECTOR STREET  
FOUR LANE UNDIVIDED**



**ARTERIAL or COLLECTOR STREET  
W/2-WAY LEFT TURN LANE IN CENTER**



**COLLECTOR STREET  
TWO LANE DIVIDED**

**NOTES:**

1. 2" x 6" REDWOOD HEADERBOARD MAY BE REQUIRED WHERE FRACTIONAL PORTION OF STREET IS IMPROVED.
2. STREET STRUCTURAL SECTIONS SHALL BE BASED ON "R" VALUE TEST AND STANDARD PLAN ST-1.
3. A MINIMUM CENTER LINE RADIUS OF CURVATURE FOR MAJOR ARTERIAL AND ARTERIAL IS 1,000 FEET, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
4. MEDIAN SHALL BE LANDSCAPED AND IRRIGATION IMPROVEMENTS INSTALLED.
5. THE INTERSECTION AREAS SHALL RECEIVE SPECIAL CONSIDERATION AS TO "STREET RIGHT OF WAY AND IMPROVEMENT STANDARDS" (ORD. 2000-05, 4-25-2000).
6. SIDEWALK WIDTH: RESIDENTIAL = 5', INDUSTRIAL = 5' AND COMMERCIAL = 9'-6".

NOT TO SCALE

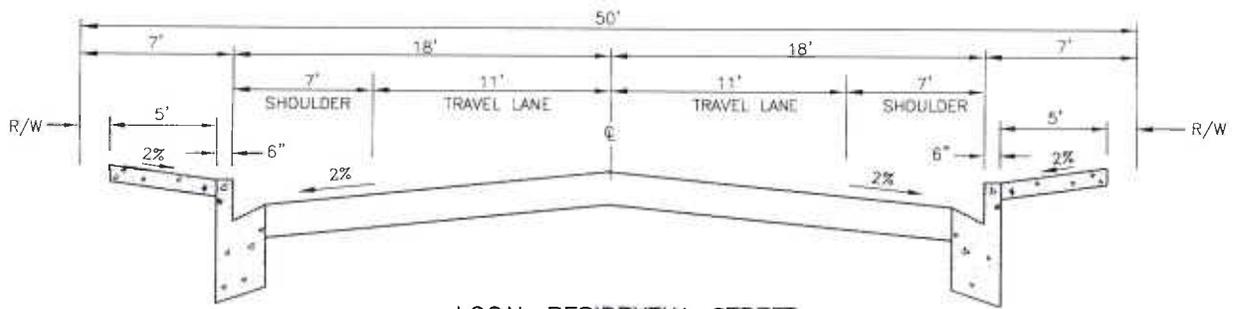
**COLLECTOR & ARTERIAL  
CROSS-SECTIONS**

REVISIONS:  
SEPT. 2016

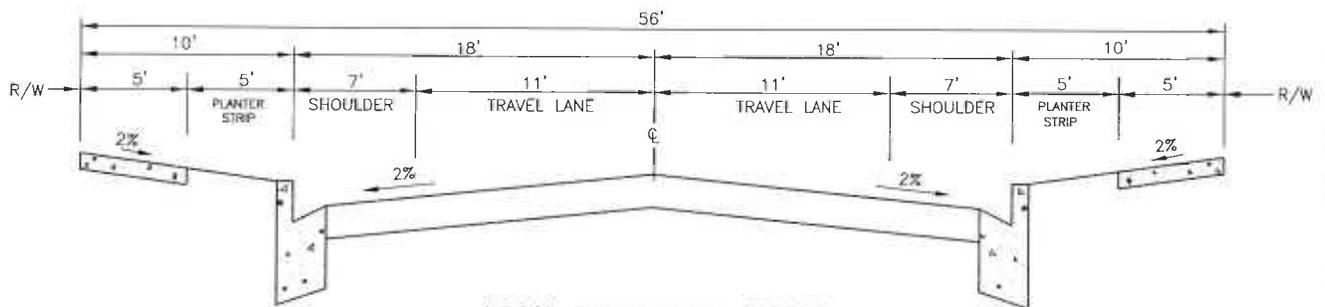
DRAWN BY: kjp

CITY OF REEDLEY

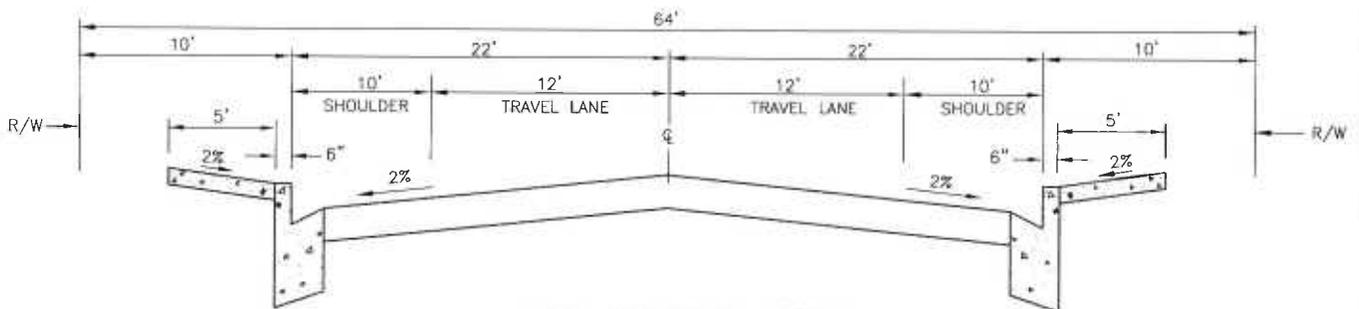
ST-2



**LOCAL RESIDENTIAL STREET  
W/MONOLITHIC SIDEWALK**



**LOCAL RESIDENTIAL STREET  
W/PARKSTRIP**



**LOCAL INDUSTRIAL STREET  
W/MONOLITHIC SIDEWALK**

**NOTES:**

1. A MINIMUM CENTER LINE RADIUS OF CURVATURE FOR LOCAL RESIDENTIAL STREETS IS 175 FEET, FOR LOCAL INDUSTRIAL STREET IS 500 FEET, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER
2. MAXIMUM BLOCK LENGTH FOR A LOCAL RESIDENTIAL STREET IS 660 FEET.
3. 2" x 6" REDWOOD HEADERBOARDS AND 6" HIGH A.C. DIKE MAY BE REQUIRED WHERE FRACTIONAL PORTION OF STREET IS IMPROVED.
4. STREET STRUCTURAL SECTION SHALL BE BASED ON "R" VALUE TESTS AND STANDARD PLAN ST-1.

NOT TO SCALE

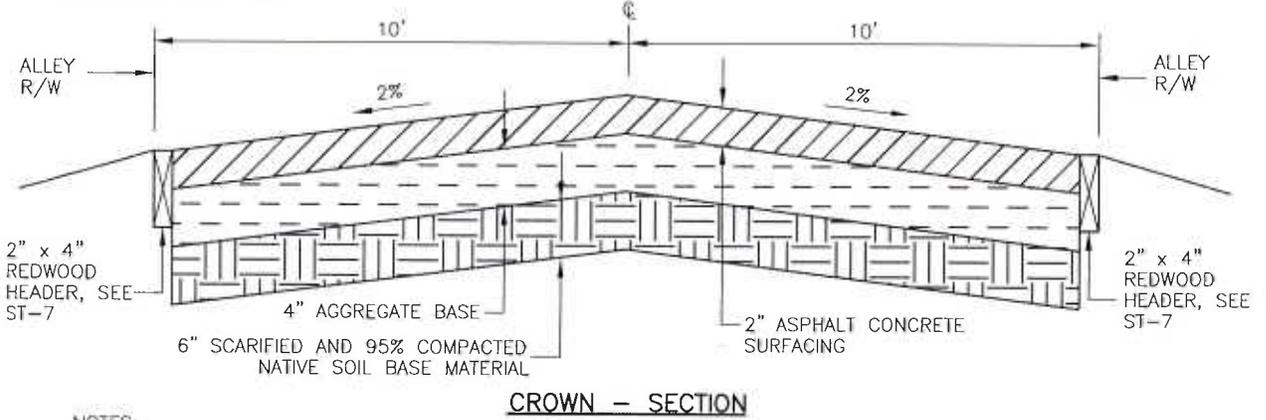
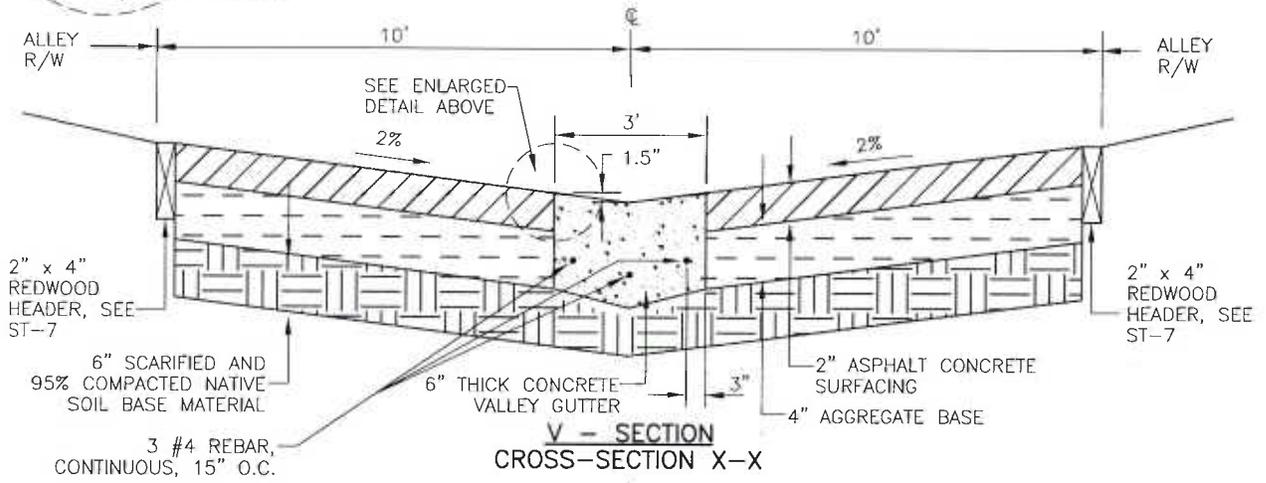
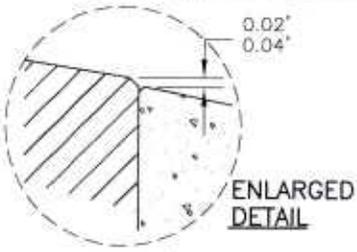
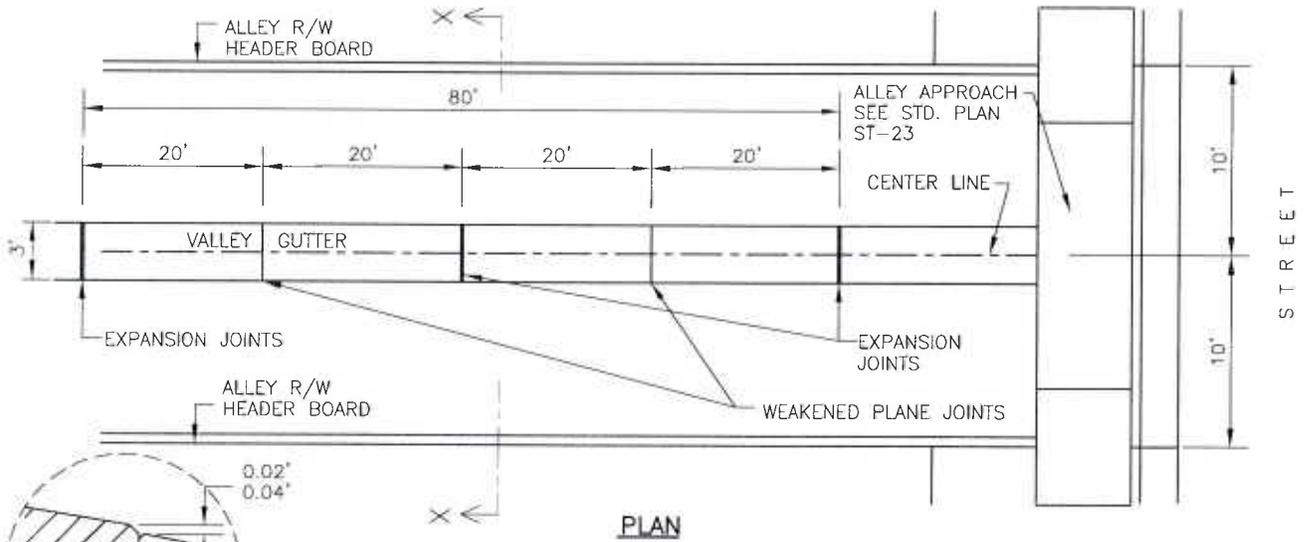
**LOCAL STREET  
CROSS-SECTIONS**

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-3



- NOTES:**
1. ALLEY STRUCTURAL SECTIONS SHOWN ARE MINIMUM, MAY VARY DEPENDING ON "R" VALUE TESTS & STD. PLAN ST-1.
  2. CROWN SECTION ALLOWED ONLY WITH SPECIAL APPROVAL FROM THE CITY ENGINEER.
  3. ALL CONCRETE USED IN VALLEY GUTTER SHALL BE 4000 PSI.
  4. REBAR SHALL HAVE A MINIMUM OF 2" CLEAR COVERAGE.
  5. REBAR SHALL BE DEFORMED STEEL BARS AND SHALL BE GRADED 40 MINIMUM, FREE OF RUST OR DIRT AND SHALL BE THOROUGHLY CLEANED BEFORE PLACEMENT.

NOT TO SCALE

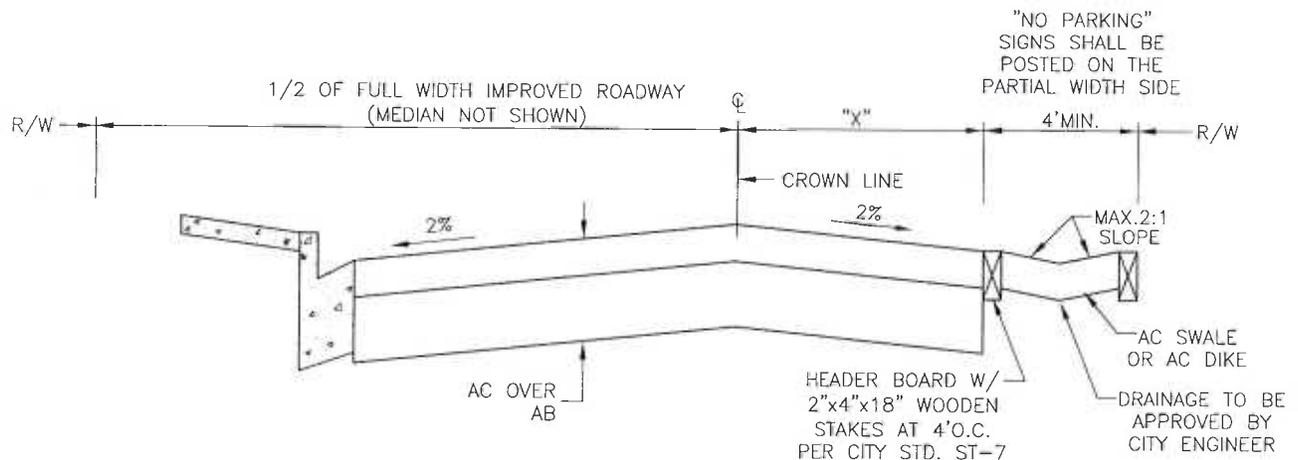
ALLEY CROSS SECTIONS & PLAN

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-4



**SECTION**

STREET	"X"
LOCAL	11.5'
COLLECTOR	14'
ARTERIAL	16'

**NOTES:**

1. THE PARTIAL WIDTH STREET IS ONLY PERMITTED ON A FRONTAGE WHERE THE DEVELOPER DOES NOT HAVE OWNERSHIP OR CONTROL OF THE RIGHT-OF-WAY FOR A FULL WIDTH STREET IMPROVEMENT.
2. SHOULDER PAVEMENT TREATMENT PM10 AS REQUIRED PER SJVAPCD, RULE 8061.
3. STREET STRUCTURAL SECTION SHALL BE BASED ON "R" VALUE TESTS AND STANDARD PLAN ST-1.

NOT TO SCALE

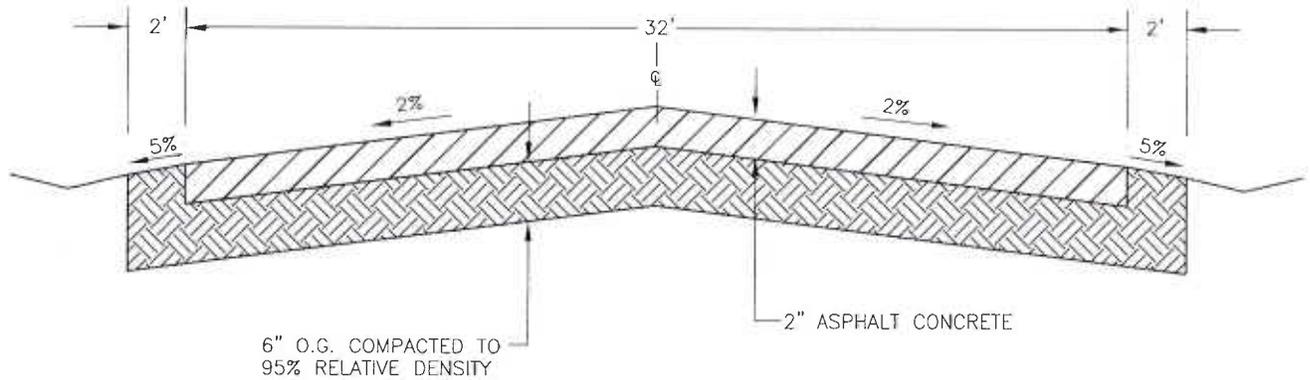
PARTIAL WIDTH STREET

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

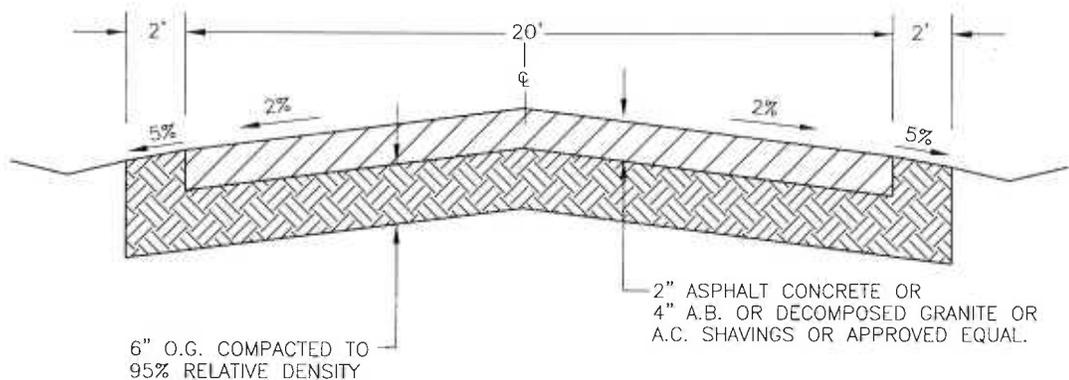
ST-5



NOTES:

1. AS REQUIRED BY THE CITY ENGINEER FOR CIRCULATION.
2. PAVEMENT SECTION MAY BE REQUIRED TO BE FULL DEPTH DESIGNED SECTION IF IN ALIGNMENT WITH A FUTURE STREET.
3. A SECONDARY ACCESS EASEMENT OR STREET RIGHT-OF-WAY DEDICATION IS REQUIRED.
4. SHOULDER PAVEMENT TREATMENT PM10 AS REQUIRED PER SJVAPCD RULE 8061.

SECONDARY ACCESS ROAD



NOTES:

1. AS REQUIRED BY THE CITY OF REEDLEY FIRE DEPARTMENT & CITY ENGINEER FOR SECONDARY ACCESSES.
2. FOR EMERGENCY ACCESS, BARRICADES MAY BE REQUIRED TO RESTRICT ACCESS PER CITY STD PLAN ST-79.
3. AN EMERGENCY/MAINTENANCE ACCESS EASEMENT DEDICATION IS REQUIRED.

MAINTENANCE & EMERGENCY ACCESS ROAD

NOT TO SCALE

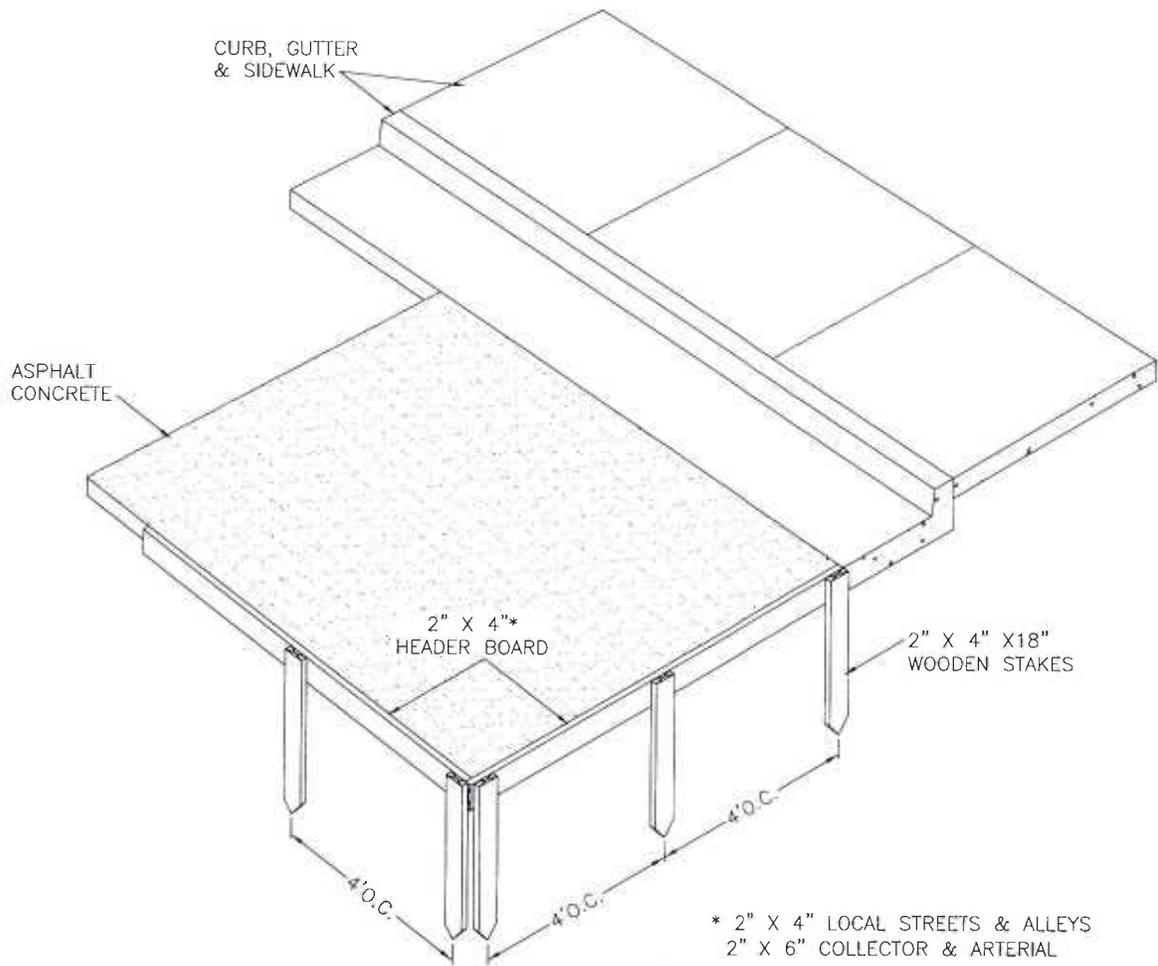
SECONDARY & EMERGENCY/  
MAINTENANCE ACCESS ROADS

REVISIONS:  
SEPT, 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-6



\* 2" X 4" LOCAL STREETS & ALLEYS  
 2" X 6" COLLECTOR & ARTERIAL

NOTES:

1. HEADER BOARD TO BE INSTALLED AT EDGES OF PAVEMENT EXCEPT WHERE JOINING EXISTING PAVEMENT.
2. HEADER BOARD TO BE INSTALLED TO FINISHED GRADE PRIOR TO PAVING.
3. BACKFILL BEHIND HEADER BOARD PRIOR TO STREET CONSTRUCTION.
4. HEADER BOARD SHALL BE REDWOOD OR PRESSURE-TREATED DOUGLAS FIR.
5. 2" X 4" X 18" STAKES SHALL BE REDWOOD OR PRESSURE-TREATED DOUGLAS FIR.

NOT TO SCALE

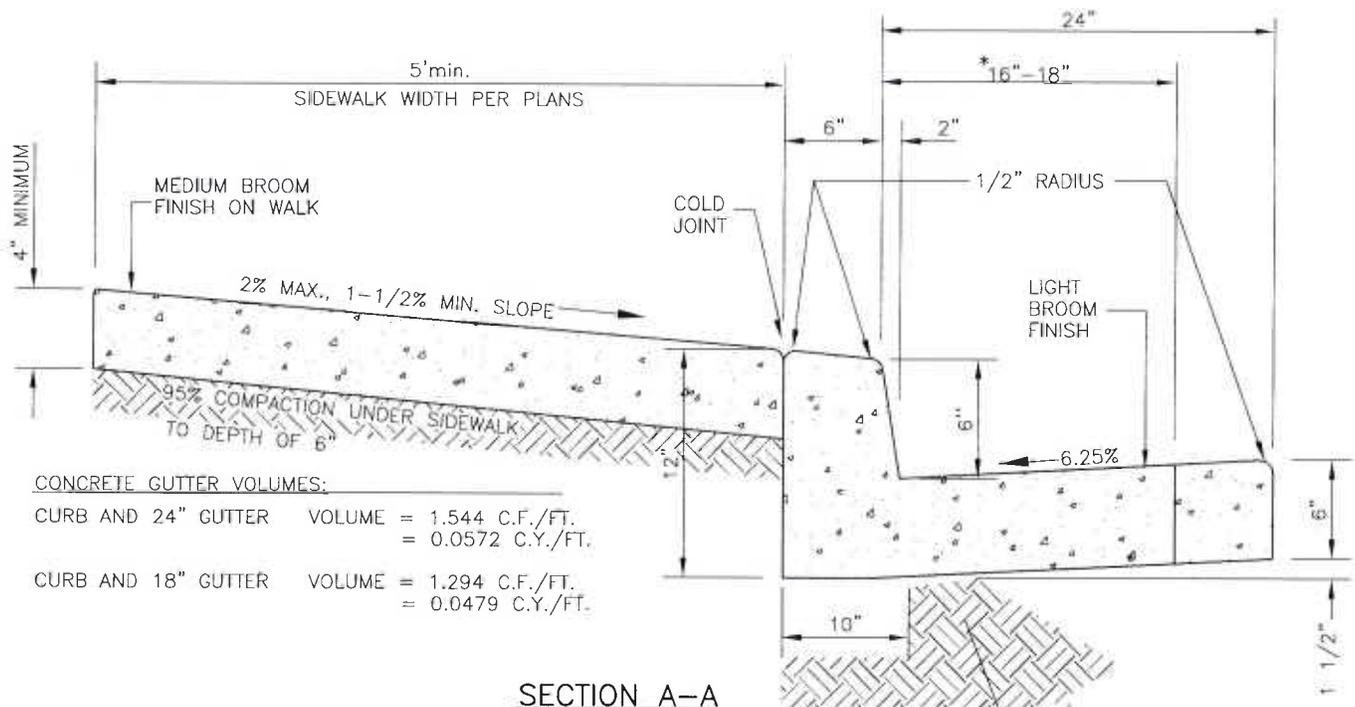
STREET HEADER  
 BOARD

REVISIONS:  
 SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-7



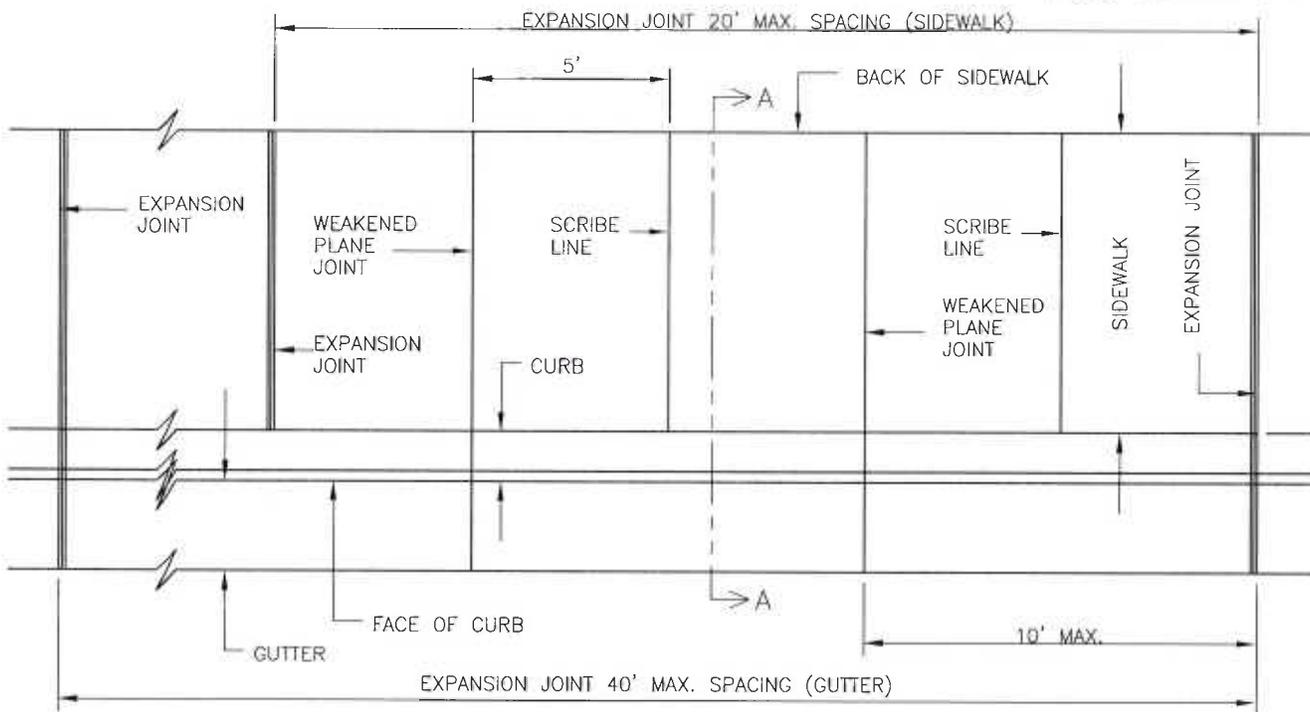
**CONCRETE GUTTER VOLUMES:**

CURB AND 24" GUTTER VOLUME = 1.544 C.F./FT.  
= 0.0572 C.Y./FT.

CURB AND 18" GUTTER VOLUME = 1.294 C.F./FT.  
= 0.0479 C.Y./FT.

**SECTION A-A**

95% RELATIVE COMPACTION BENEATH CURB & GUTTER TO DEPTH OF 6" MIN.



**PLAN**

**NOTES:**

- \*1. 16-18" GUTTER TO BE INSTALLED WHERE SIMILAR EXISTS OR AS DIRECTED BY THE CITY ENGINEER.
2. THE MAXIMUM SPACING FOR EXPANSION JOINTS FOR CURB AND GUTTER IS 40 FT.
3. WEAKENED PLANE JOINTS SHALL BE PLACED AT A SPACING OF 10 FT. FOR CURB, GUTTER & SIDEWALK.
4. THE MAXIMUM SPACING FOR EXPANSION JOINTS IN SIDEWALK IS 20 FT.
5. ALL CONCRETE USED IN SIDEWALK, CURB & GUTTER SHALL BE 4000 PSI.
6. GUTTER FLOW SLOPE 0.2% MIN.
7. SIDEWALK WIDTH: RESIDENTIAL = 5', INDUSTRIAL = 5' AND COMMERCIAL = 9'-6".
8. STAMP CURB FACE AT SEWER & WATER LATERAL HOUSE BRANCH LOCATIONS PER CITY SPECIFICATIONS.

NOT TO SCALE

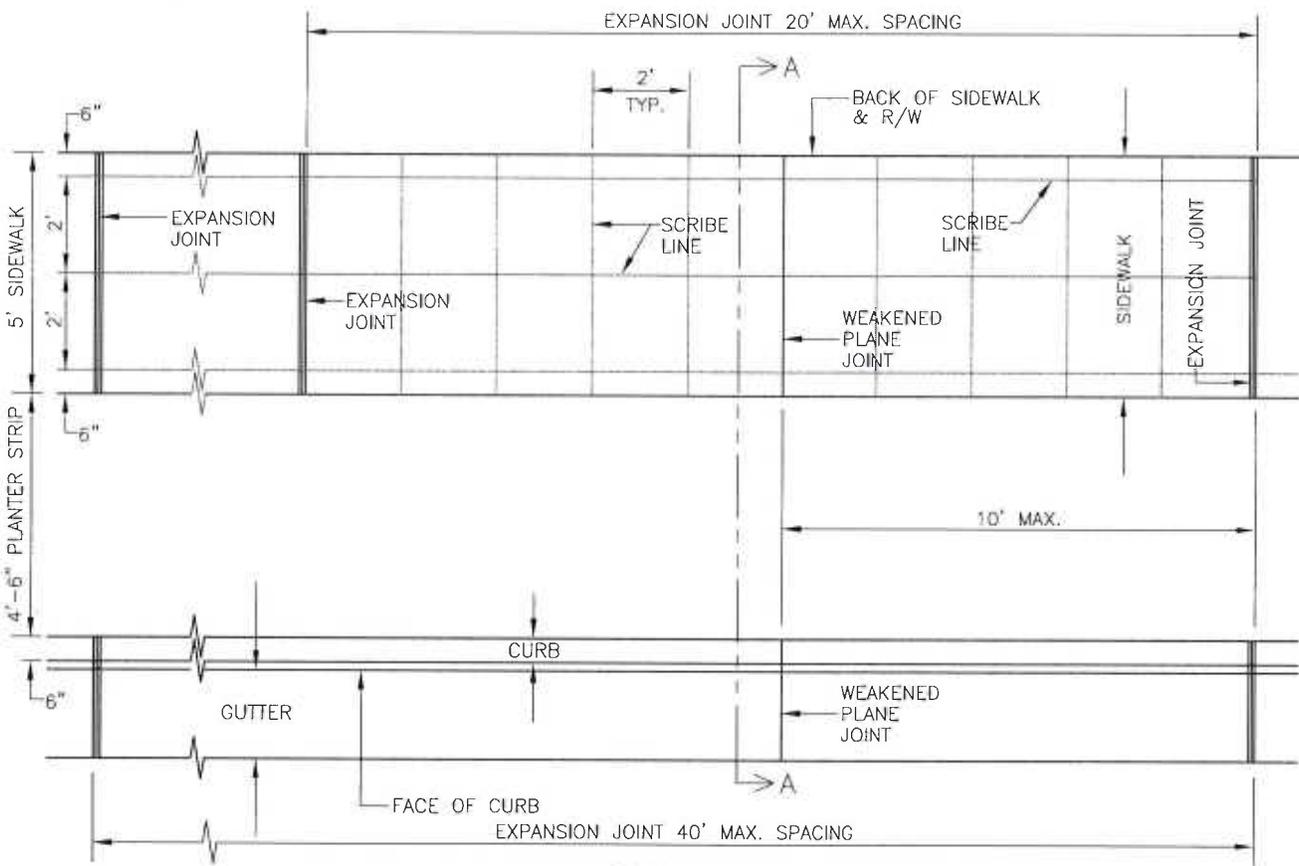
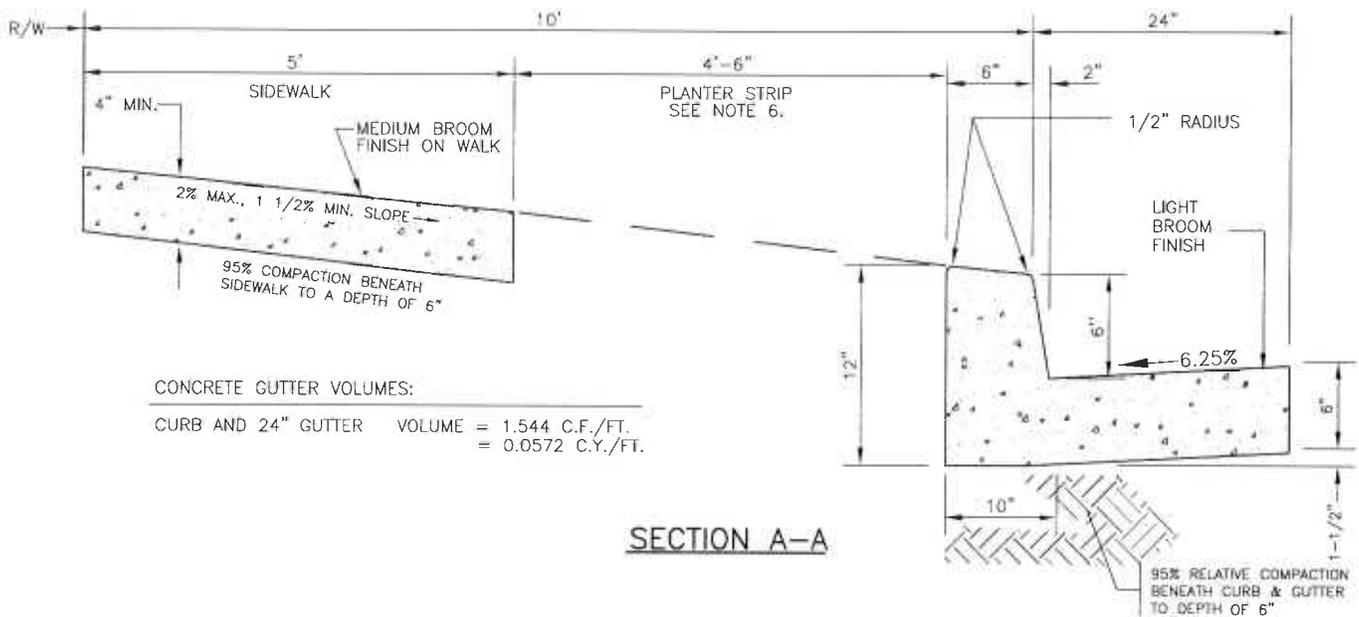
**CURB, GUTTER  
AND  
SIDEWALK**

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-8



**NOTES:**

1. THE MAXIMUM SPACING FOR EXPANSION JOINTS FOR CURB AND GUTTER IS 40 FT.
2. WEAKENED PLANE JOINTS SHALL BE PLACED AT A SPACING OF 10 FT. FOR CURB, GUTTER & SIDEWALK.
3. THE MAXIMUM SPACING FOR EXPANSION JOINTS IN SIDEWALK IS 20 FT.
4. STAMP CURB FACE AT SEWER & WATER LATERAL HOUSE BRANCH LOCATIONS PER CITY SPECIFICATIONS.
5. ALL CONCRETE USED IN SIDEWALK, CURB & GUTTER SHALL BE 4000 PSI.
6. AREA BETWEEN CURB & SIDEWALK SHALL BE FILLED TO 1" BELOW TOP OF CURB W/CLEAN TOPSOIL, FREE OF DEBRIS.
7. SIDEWALK WIDTH: RESIDENTIAL = 5', INDUSTRIAL = 5' AND COMMERCIAL = 9'-6"
8. GUTTER FLOW SLOPE 0.2% MIN.

NOT TO SCALE

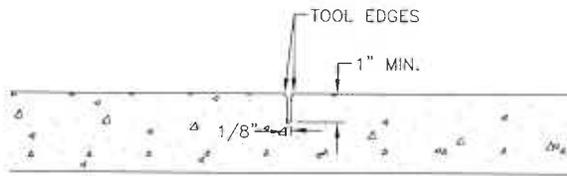
**CURB, GUTTER  
AND SIDEWALK  
WITH  
PLANTER STRIP**

REVISIONS:  
SEPT. 2016

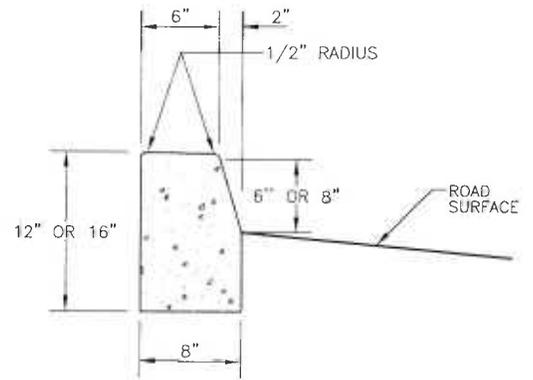
DRAWN BY: kjp

CITY OF REEDLEY

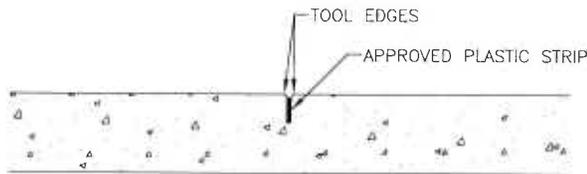
ST-9



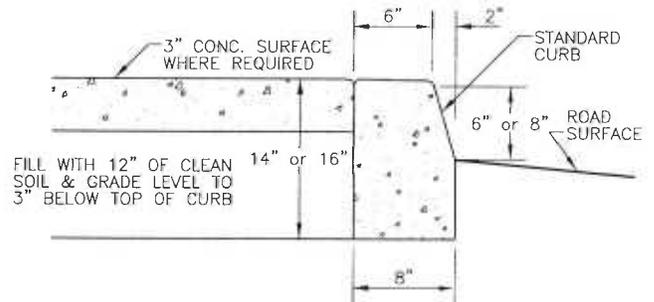
**WEAKENED PLANE JOINT**



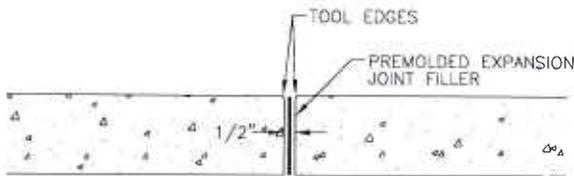
**CROSS-SECTION OF CURB**



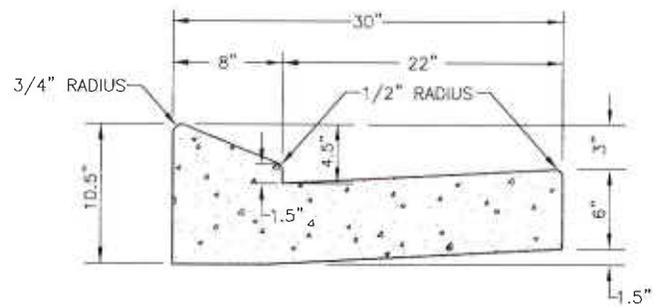
**ALTERNATE DESIGN WEAKENED PLANE JOINT**



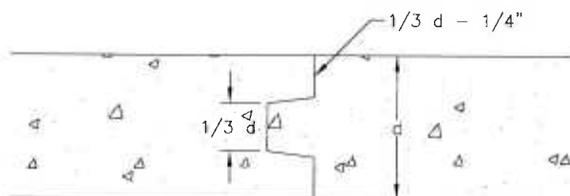
**MEDIAN ISLAND CURB**



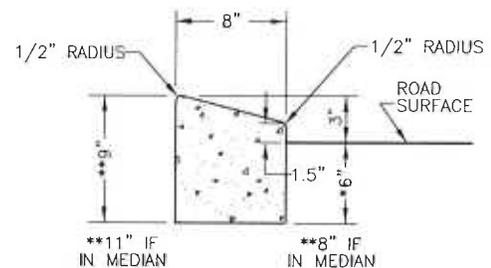
**EXPANSION JOINT**



**WEDGE CURB AND GUTTER**



**CONSTRUCTION JOINT**



**MOUNTABLE CURB**

NOT TO SCALE

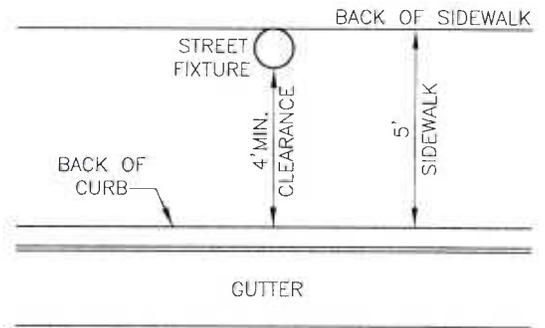
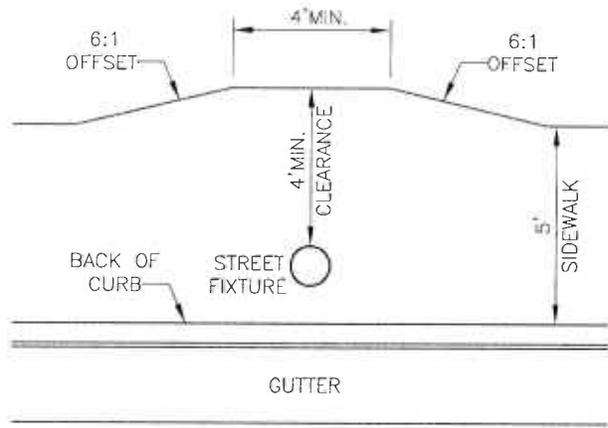
**CONCRETE CONSTRUCTION DETAILS**

REVISIONS:  
SEPT. 2016

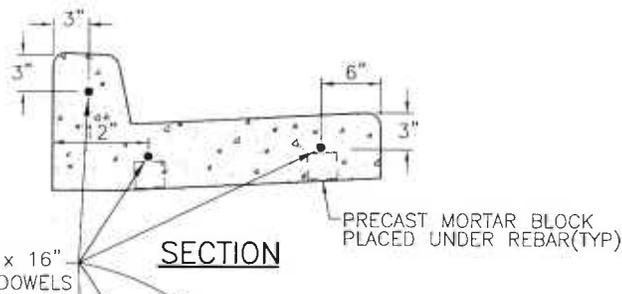
DRAWN BY: kjp

CITY OF REEDLEY

ST-10



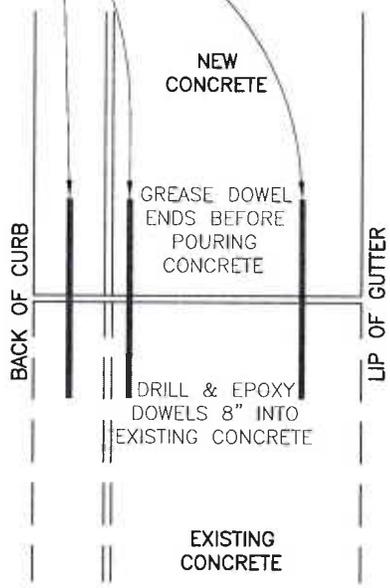
**SIDEWALK PLAN WITH OBSTRUCTION/STREET FIXTURE**



3 TOTAL 1/2" x 16" SMOOTH STEEL DOWELS

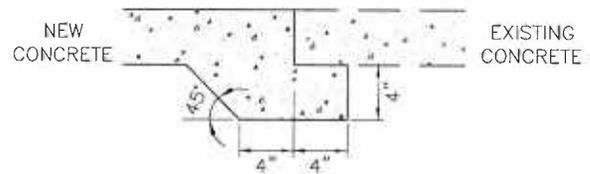
**SECTION**

PRECAST MORTAR BLOCK PLACED UNDER REBAR(TYP)



**PLAN**

**CONCRETE CURB & GUTTER**



**CONCRETE FLATWORK (SECTION)**

NOT TO SCALE

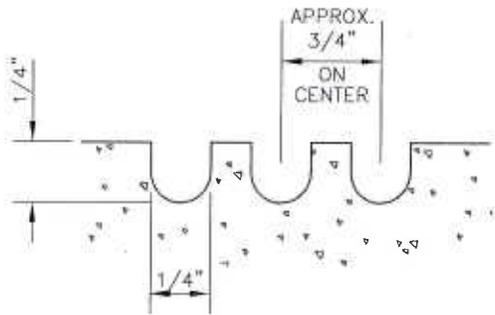
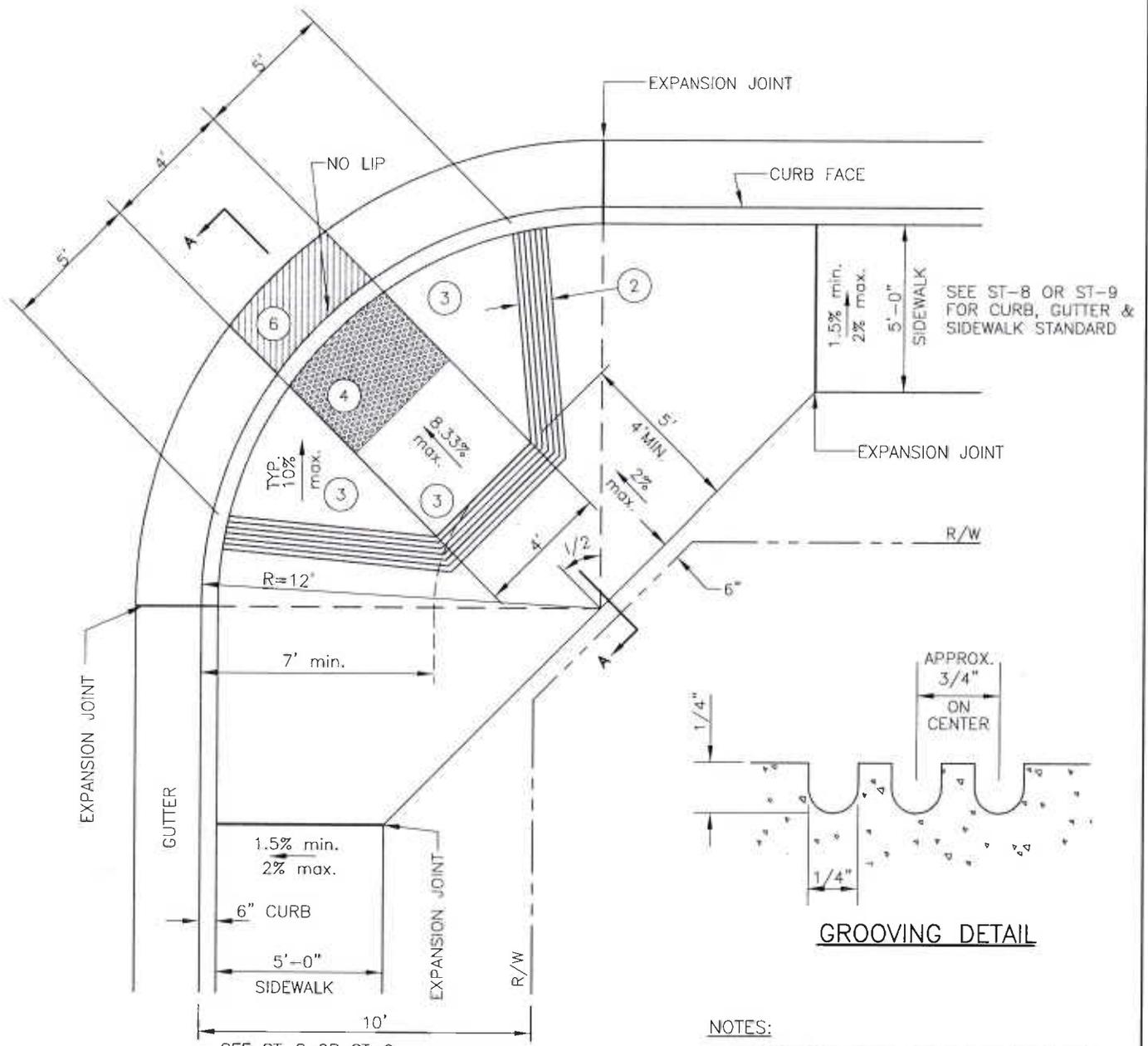
SIDEWALK OBSTRUCTIONS  
AND  
CONCRETE COLD JOINTS

REVISIONS:  
SEPT. 2016

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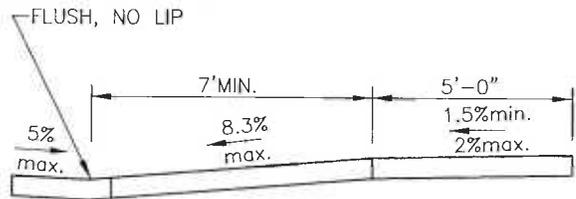
CITY OF REEDLEY

ST-11



**GROOVING DETAIL**

SEE ST-8 OR ST-9 FOR CURB, GUTTER & SIDEWALK STANDARD



**SECTION A-A**

**NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CURRENT ADA GUIDELINES.
2. 12" WIDE BORDER WITH 1/4" DEPTH AND WIDTH GROOVES APPROX. 3/4" O.C. SEE GROOVING DETAIL ABOVE.
3. MEDIUM BROOM-FINISH WITHIN RAMP AREA.
4. DETECTABLE WARNING SURFACE REQUIRED FULL WIDTH & 3' DEPTH OF RAMP PER ST-17.
5. RAMP THICKNESS SHALL BE 6".
6. GUTTER PAN TO BE FLATTENED TO 5% IN FRONT OF RAMP.
7. CONCRETE SHALL BE 4000 PSI.
8. 6" O.G. COMPACTED TO 95% RELATIVE COMPACTION.
9. MEASUREMENT: RAMP INCLUDES LANDING AREA OUT TO EXPANSION JOINTS-SF, CURB & GUTTER-LF, SIDEWALK-SF

NOT TO SCALE

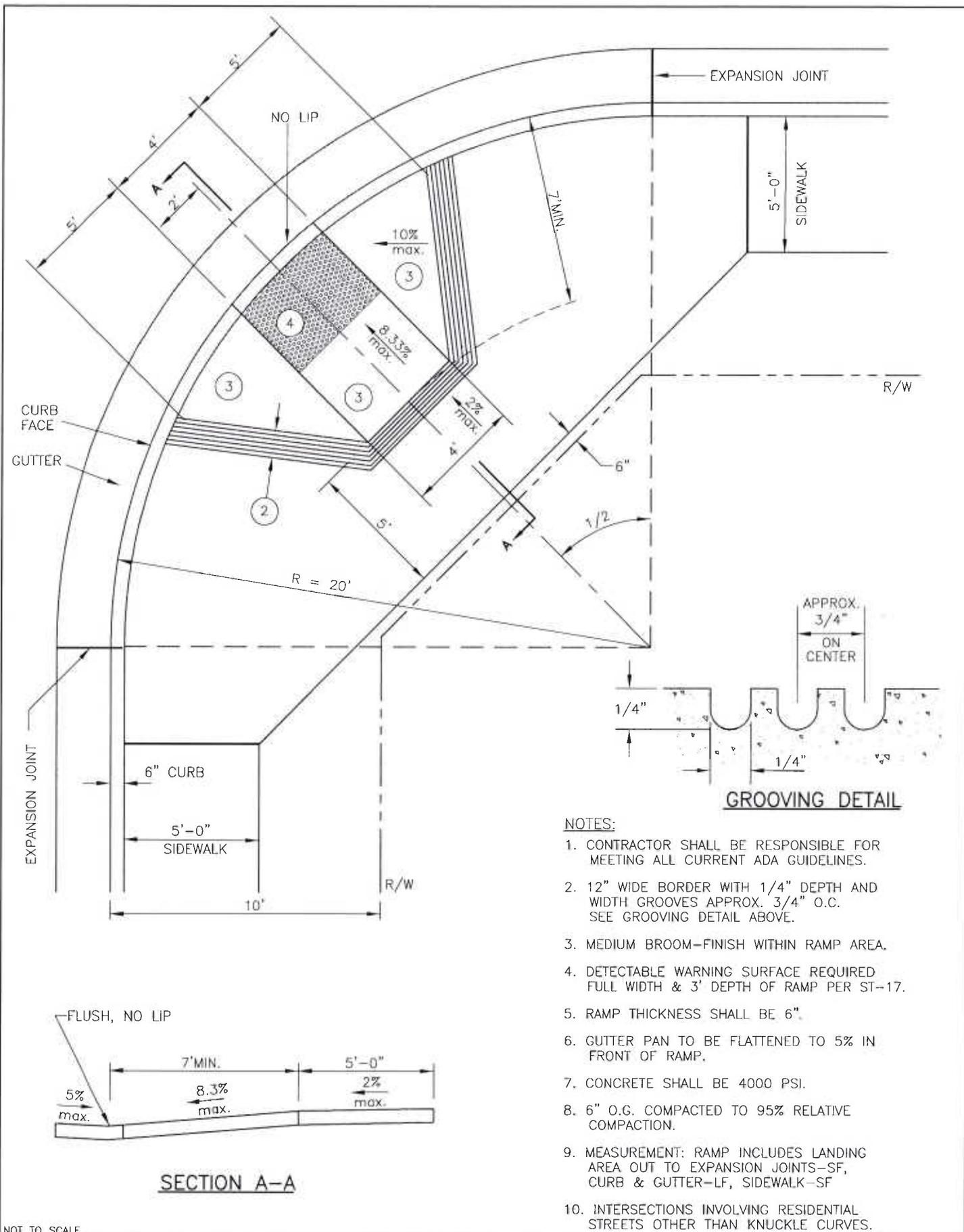
12 FT. RADIUS CURB RETURN WITH WHEELCHAIR RAMP

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-12



NOT TO SCALE

20 FT. RADIUS CURB RETURN WITH WHEELCHAIR RAMP

REVISIONS:  
SEPT. 2016

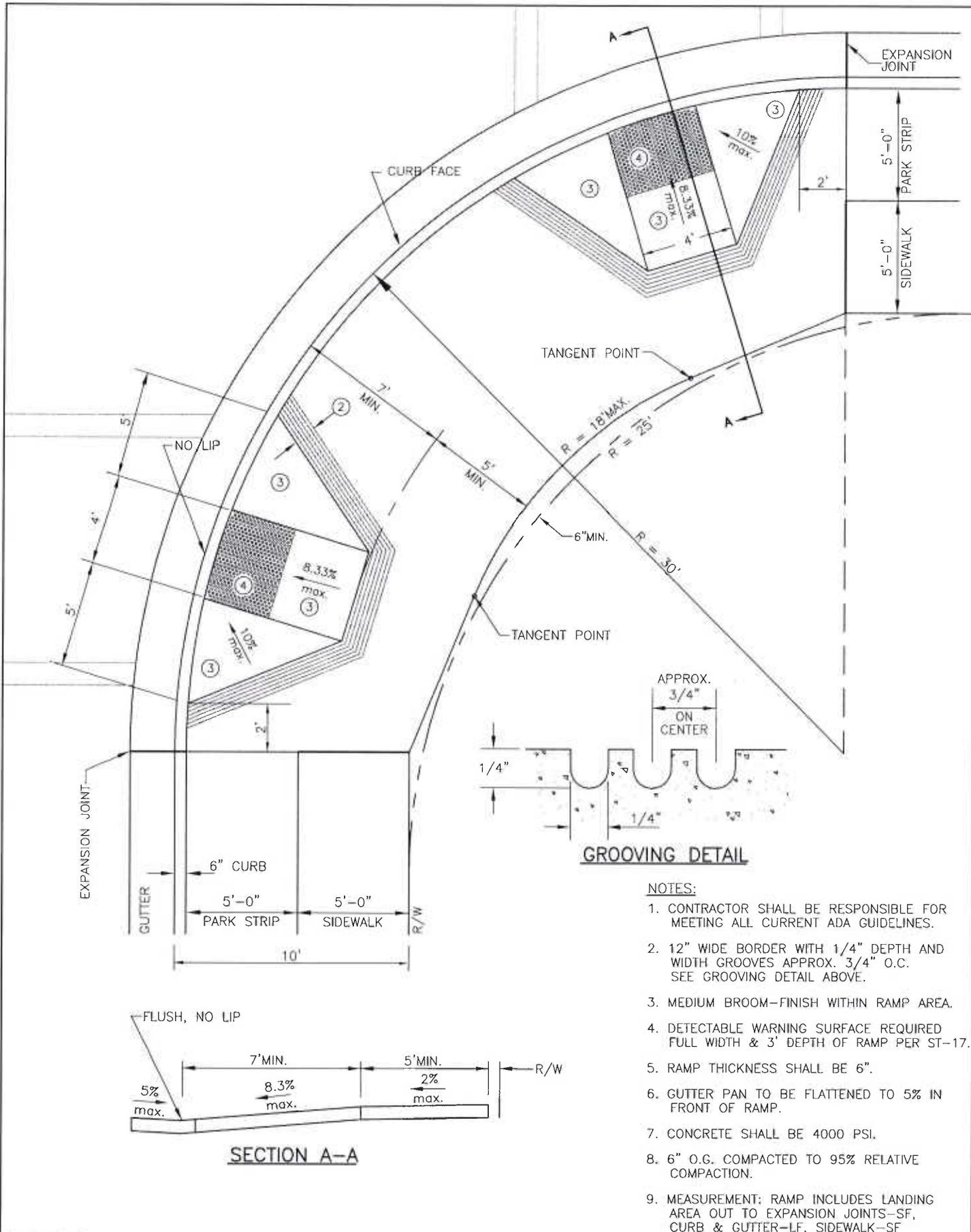
DRAWN BY: kjp

CITY OF REEDLEY

ST-13

**NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CURRENT ADA GUIDELINES.
2. 12" WIDE BORDER WITH 1/4" DEPTH AND WIDTH GROOVES APPROX. 3/4" O.C. SEE GROOVING DETAIL ABOVE.
3. MEDIUM BROOM-FINISH WITHIN RAMP AREA.
4. DETECTABLE WARNING SURFACE REQUIRED FULL WIDTH & 3' DEPTH OF RAMP PER ST-17.
5. RAMP THICKNESS SHALL BE 6".
6. GUTTER PAN TO BE FLATTENED TO 5% IN FRONT OF RAMP.
7. CONCRETE SHALL BE 4000 PSI.
8. 6" O.G. COMPACTED TO 95% RELATIVE COMPACTION.
9. MEASUREMENT: RAMP INCLUDES LANDING AREA OUT TO EXPANSION JOINTS-SF, CURB & GUTTER-LF, SIDEWALK-SF
10. INTERSECTIONS INVOLVING RESIDENTIAL STREETS OTHER THAN KNUCKLE CURVES.



**GROOVING DETAIL**

**NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CURRENT ADA GUIDELINES.
2. 12" WIDE BORDER WITH 1/4" DEPTH AND WIDTH GROOVES APPROX. 3/4" O.C. SEE GROOVING DETAIL ABOVE.
3. MEDIUM BROOM-FINISH WITHIN RAMP AREA.
4. DETECTABLE WARNING SURFACE REQUIRED FULL WIDTH & 3' DEPTH OF RAMP PER ST-17.
5. RAMP THICKNESS SHALL BE 6".
6. GUTTER PAN TO BE FLATTENED TO 5% IN FRONT OF RAMP.
7. CONCRETE SHALL BE 4000 PSI.
8. 6" O.G. COMPACTED TO 95% RELATIVE COMPACTION.
9. MEASUREMENT: RAMP INCLUDES LANDING AREA OUT TO EXPANSION JOINTS-SF, CURB & GUTTER-LF, SIDEWALK-SF

NOT TO SCALE

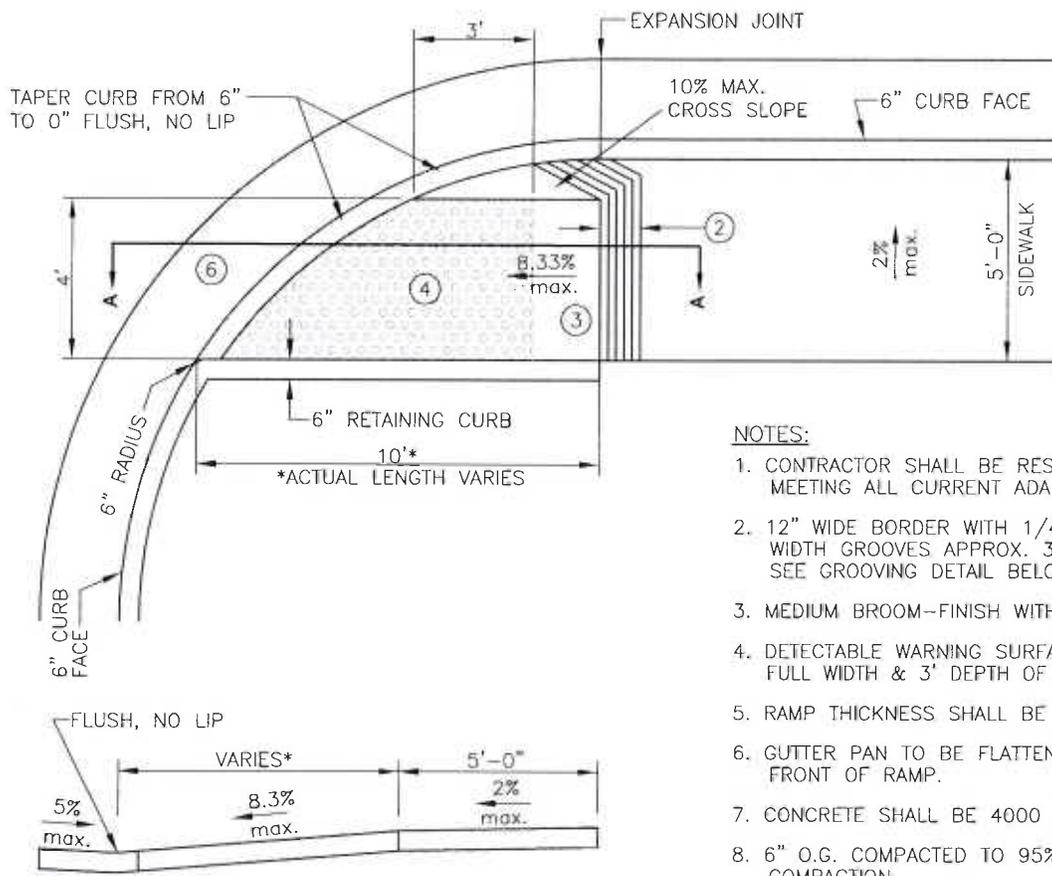
30 FT. RADIUS  
CURB RETURN WITH  
WHEELCHAIR RAMP

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-14

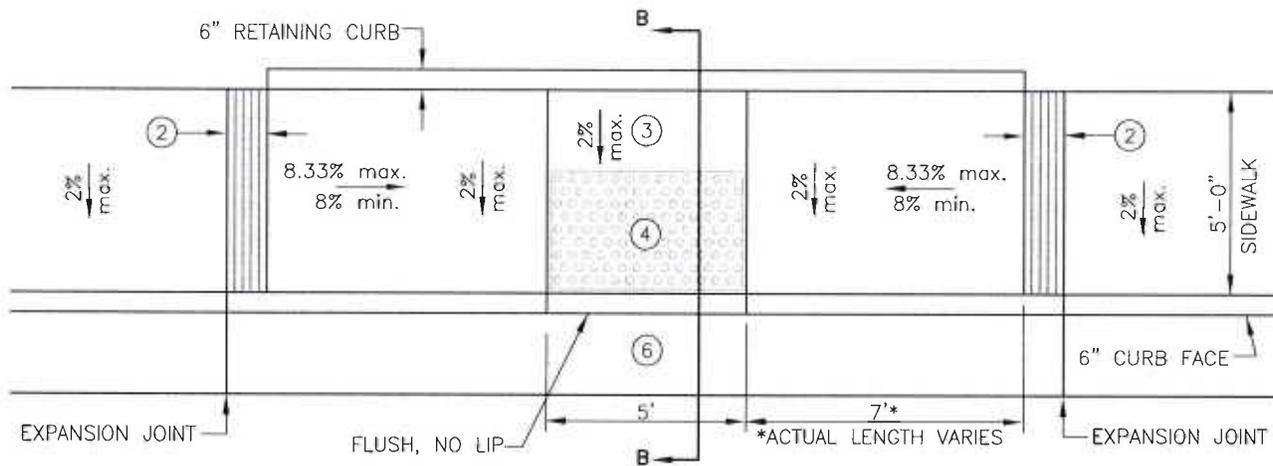


SECTION A-A

CORNER RAMP

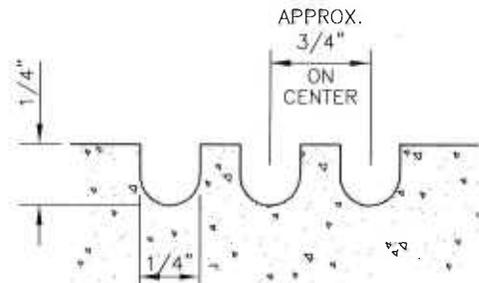
NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CURRENT ADA GUIDELINES.
2. 12" WIDE BORDER WITH 1/4" DEPTH AND WIDTH GROOVES APPROX. 3/4" O.C. SEE GROOVING DETAIL BELOW.
3. MEDIUM BROOM-FINISH WITHIN RAMP AREA.
4. DETECTABLE WARNING SURFACE REQUIRED FULL WIDTH & 3' DEPTH OF RAMP PER ST-17.
5. RAMP THICKNESS SHALL BE 6".
6. GUTTER PAN TO BE FLATTENED TO 5% IN FRONT OF RAMP.
7. CONCRETE SHALL BE 4000 PSI.
8. 6" O.G. COMPACTED TO 95% RELATIVE COMPACTION.
9. MEASUREMENT: RAMP INCLUDES LANDING AREA OUT TO EXPANSION JOINTS-CF, CURB & GUTTER-LF, SIDEWALK-SF



SECTION B-B

MID-BLOCK RAMP



GROOVING DETAIL

NOT TO SCALE

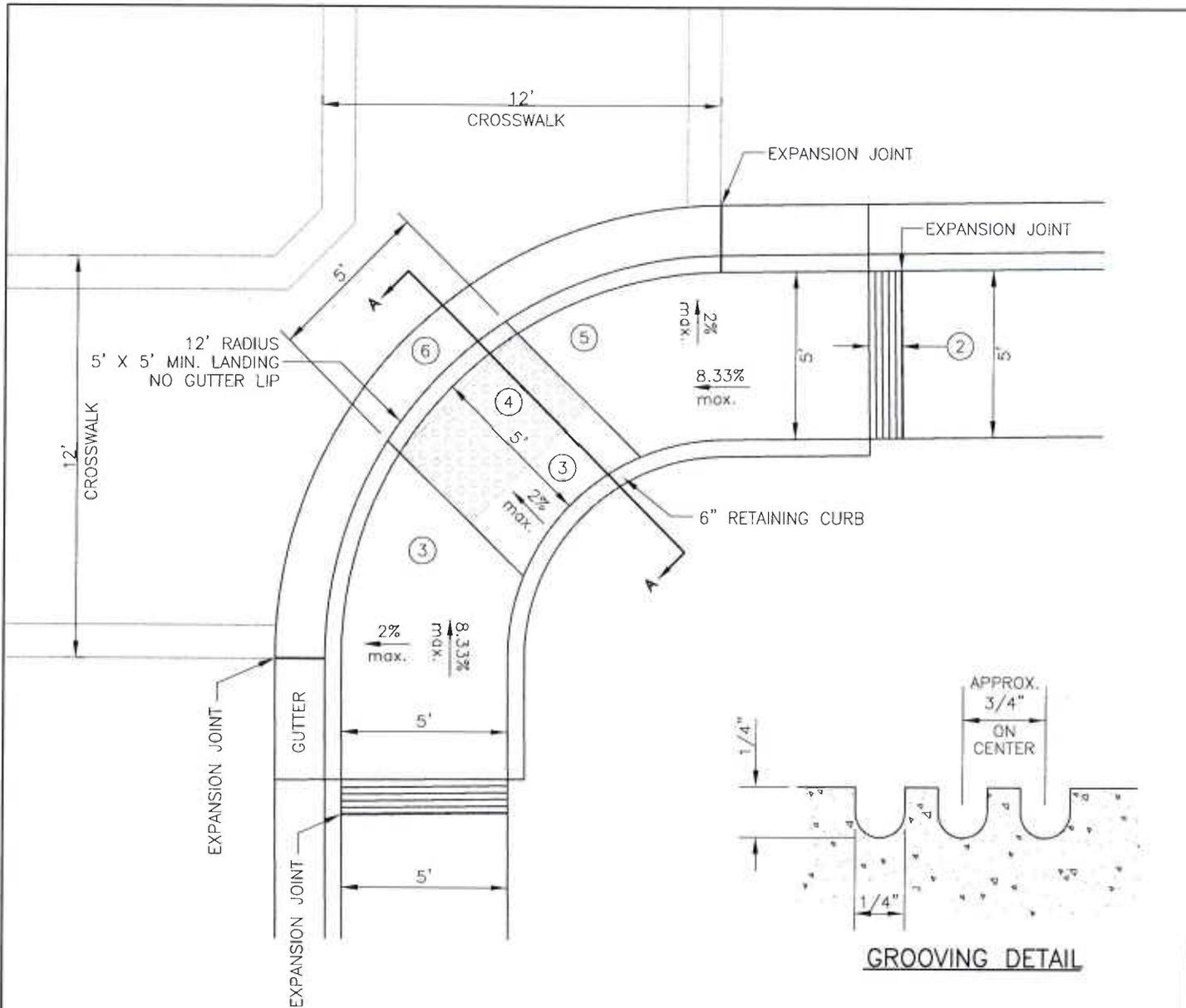
MODIFIED CURB RAMPS  
ONE-WAY CROSSING

REVISIONS:  
SEPT. 2016

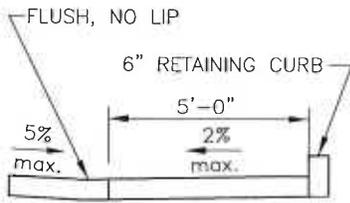
DRAWN BY: kjp

CITY OF REEDLEY

ST-15



**GROOVING DETAIL**



**SECTION A-A**

**NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CURRENT ADA GUIDELINES.
2. 12" WIDE BORDER WITH 1/4" DEPTH AND WIDTH GROOVES APPROX. 3/4" O.C. SEE GROOVING DETAIL ABOVE.
3. MEDIUM BROOM-FINISH WITHIN RAMP AREA.
4. DETECTABLE WARNING SURFACE REQUIRED FULL WIDTH & 3' DEPTH OF RAMP PER ST-17.
5. RAMP THICKNESS SHALL BE 6".
6. GUTTER PAN TO BE FLATTENED TO 5% IN FRONT OF RAMP.
7. CONCRETE SHALL BE 4000 PSI.
8. 6" O.G. COMPACTED TO 95% RELATIVE COMPACTION.
9. MEASUREMENT: RAMP INCLUDES LANDING AREA OUT TO EXPANSION JOINTS-SF, CURB & GUTTER-LF, SIDEWALK-SF

NOT TO SCALE

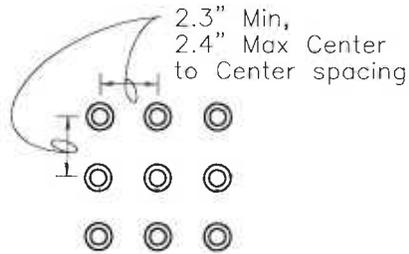
MODIFIED CURB RAMP  
TWO-WAY CROSSING

REVISIONS:  
SEPT. 2016

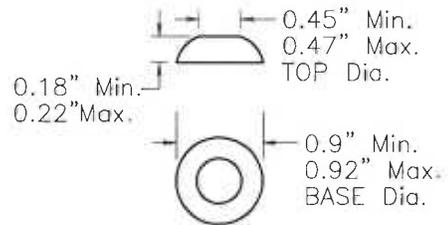
DRAWN BY: kjp

CITY OF REEDLEY

ST-16



RAISED TRUNCATED  
DOME PATTERN (IN-LINE)



RAISED TRUNCATED DOME

DETECTABLE WARNING  
SURFACE

NOTES:

- 1) THE DETECTABLE WARNING SHALL VISUALLY CONTRAST PER THE 2013 CALIFORNIA BUILDING CODE. THE MATERIAL USED SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. THE COLOR SHALL BE YELLOW.
- 2) THE DOMES MAY BE CONSTRUCTED IN A VARIETY OF METHODS, INCLUDING CAST-IN-PLACE OR STAMPED OR IT MAY BE PART OF A PREFABRICATED SURFACE TREATMENT.
- 3) ONLY APPROVED DSA/AC DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, ARTICLES 2, 3 AND 4. REFER TO CCR TITLE 24, PART 12, CHAPTER 12-11A AND B FOR BUILDING FACILITY ACCESS SPECIFICATIONS FOR PRODUCT APPROVAL FOR DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES.
- 4) DETECTABLE WARNING PRODUCTS AND DETECTABLE SURFACES SHALL BE EVALUATED BY AN INDEPENDENT ENTITY, SELECTED BY THE DEPARTMENT OF GENERAL SERVICES, DIVISION OF THE STATE ARCHITECT-ACCESS COMPLIANCE FOR ALL OCCUPANCIES, INCLUDING TRANSPORTATION AND OTHER OUTDOOR ENVIRONMENTS. SEE GOVERNMENT CODE SECTION 4460.
- 5) CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF THE RAMP.

NOT TO SCALE

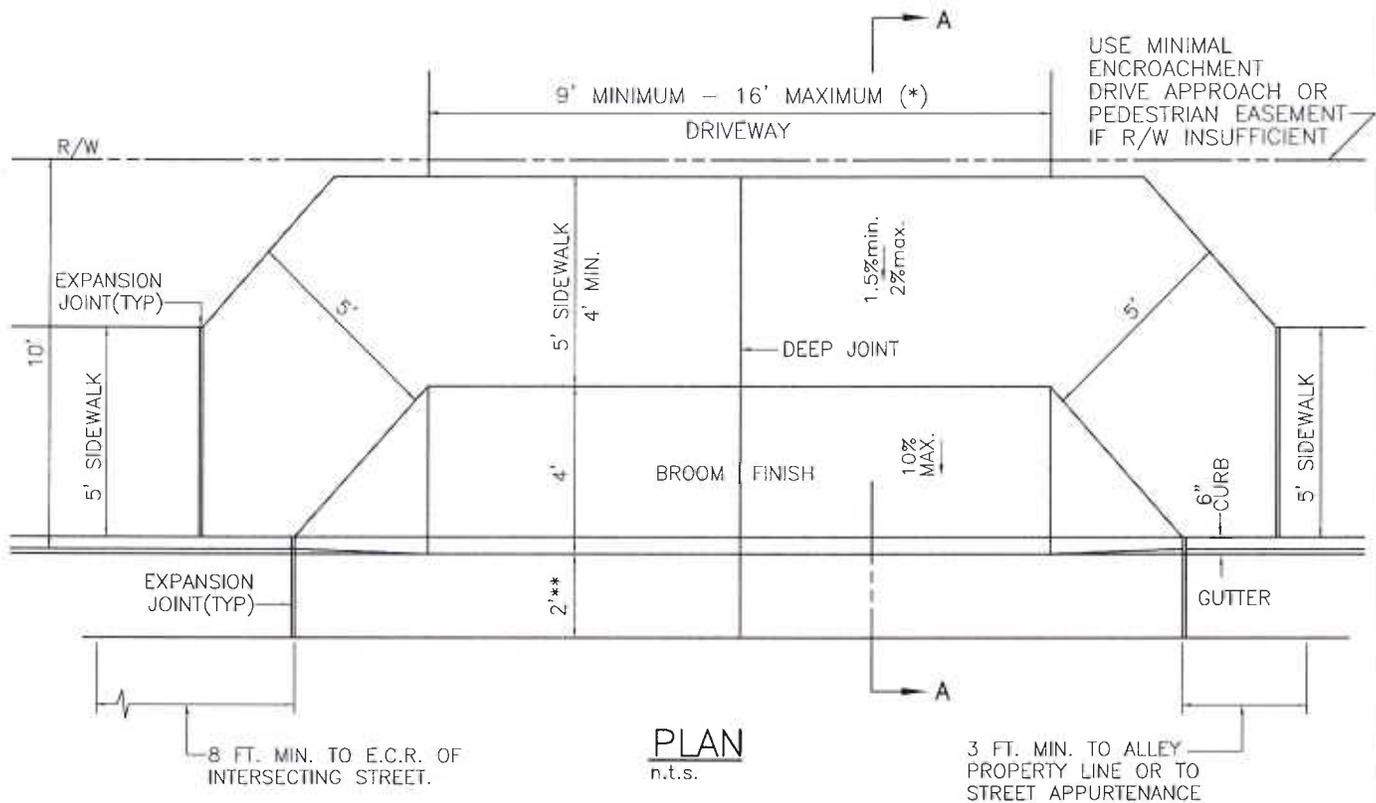
DETECTABLE WARNING  
SURFACE

REVISIONS:  
SEPT. 2016

DRAWN BY: *kjp*

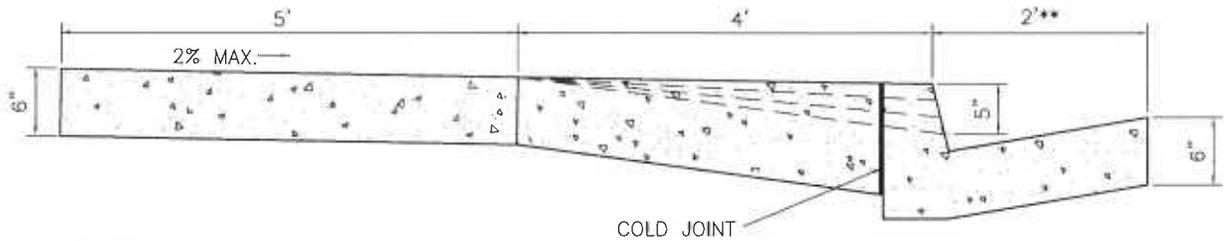
CITY OF REEDLEY

ST-17

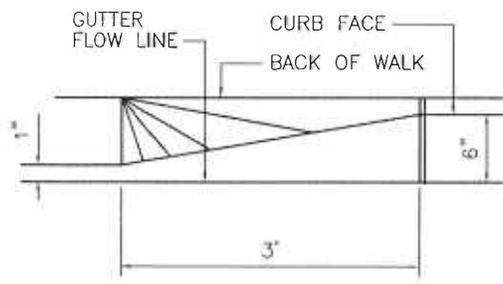


**PLAN**  
n.t.s.

- \* WIDTHS ARE FOR DRIVEWAY THROAT OPENING  
THROAT OPENING FOR 3 OR MORE CAR GARAGE REQUIRES APPROVAL FROM CITY ENGINEER
- \*\* GUTTER WIDTH PER CONSTRUCTION PLANS OR ON-SITE CONDITIONS IF NOT 2'.



**SECTION A-A**  
n.t.s.



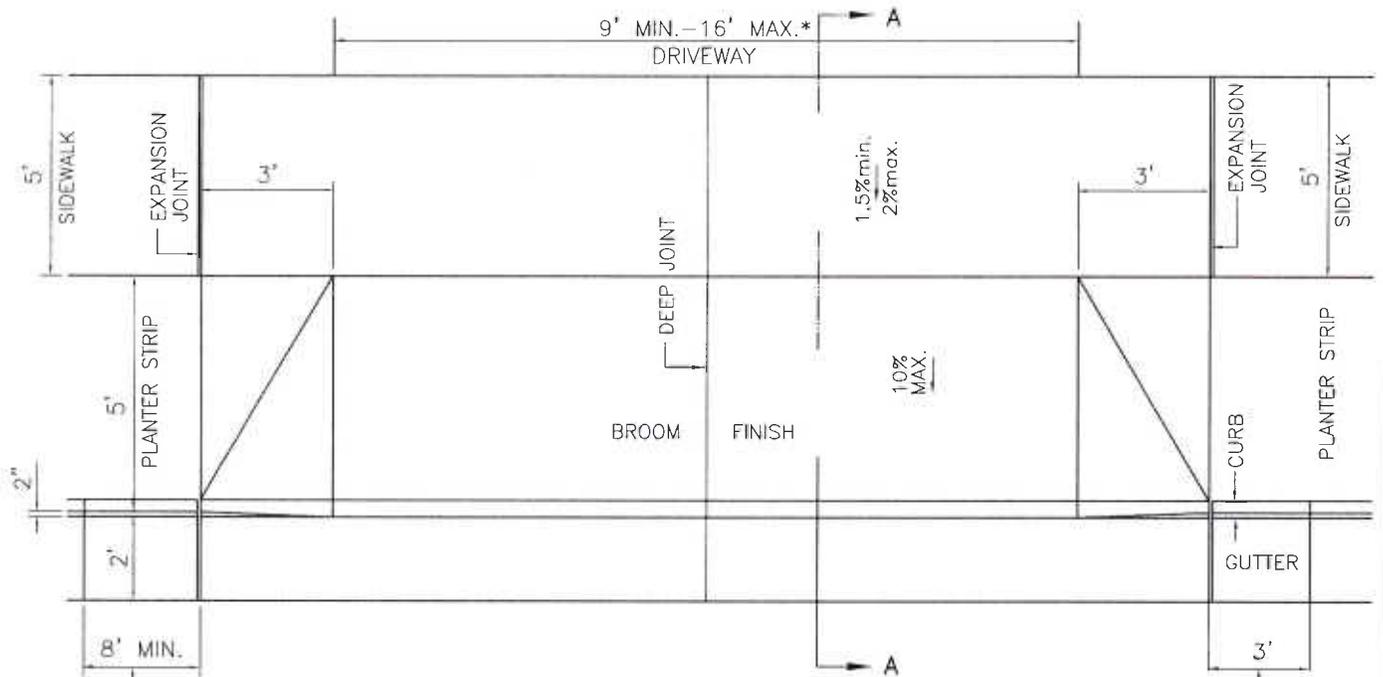
**ELEVATION**  
n.t.s.

**GENERAL NOTES:**

1. MUST REMOVE ENTIRE CURB AND GUTTER WHEN RECONSTRUCTION IS REQUIRED.
2. NOT MORE THAN 60% OF LOT FRONTAGE MEASURED AT STREET SIDE (TOP OF CURB BETWEEN LOT LINES EXTENDED) MAY BE USED FOR DRIVEWAY OPENING.
3. ALL MULTIPLE RESIDENTIAL PROPERTIES TO HAVE ON-SITE REFUSE PICKUP SHALL INSTALL COMMERCIAL DRIVEWAY APPROACHES PER CITY OF REEDLEY STD. PLAN ST-21.
4. CONCRETE FOR DRIVEWAY APPROACH SHALL BE CLASS A, 4000 PSI, 6" THICK MIN.
5. DEEP JOINT REQUIRED IN CENTER OF DRIVE APPROACH.
6. APPROACH, CURB AND GUTTER SUBGRADE COMPACTED TO 95% A MINIMUM OF 6".
7. BROOM SWEEP FINISH ON DRIVEWAY APPROACH.
8. E.C.R. = END OF CURB RETURN.
9. MEASUREMENT: DRIVE APPROACH FROM BACK OF CURB TO BACK OF WALK, WING TO WING-SF, CURB & GUTTER-LF.

NOT TO SCALE

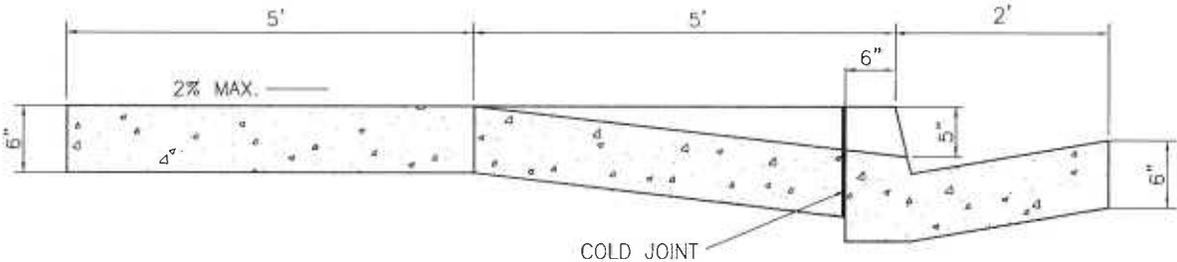
<h1>RESIDENTIAL DRIVEWAY APPROACH</h1>	REVISIONS: SEPT. 2016	<h1>CITY OF REEDLEY</h1>
	DRAWN BY: kjp	<h1>ST-18</h1>



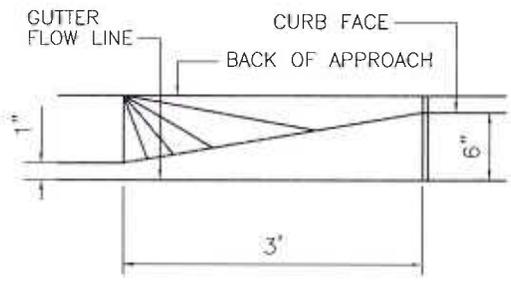
**PLAN**  
n.t.s.

\* WIDTHS ARE FOR DRIVEWAY THROAT OPENING.  
THROAT OPENING FOR 3 OR MORE CAR GARAGE REQUIRES  
APPROVAL FROM CITY ENGINEER.

3 FT. MIN. TO ALLEY  
PROPERTY LINE OR  
TO STREET APPURTENANCE



**SECTION A-A**  
n.t.s.



**ELEVATION**  
n.t.s.

**GENERAL NOTES:**

1. MUST REMOVE ENTIRE CURB AND GUTTER WHEN RECONSTRUCTION IS REQUIRED.
2. NOT MORE THAN 60% OF LOT FRONTAGE MEASURED AT STREET SIDE (TOP OF CURB BETWEEN LOT LINES EXTENDED) MAY BE USED FOR DRIVEWAY OPENING.
3. ALL MULTIPLE RESIDENTIAL PROPERTIES TO HAVE ON-SITE REFUSE PICKUP SHALL INSTALL COMMERCIAL DRIVEWAY APPROACHES PER CITY OF REEDLEY STD. PLAN ST-21.
4. CONCRETE FOR DRIVEWAY APPROACH SHALL BE CLASS A, 4000 PSI 6" THICK MIN.
5. DEEP JOINT REQUIRED IN CENTER OF DRIVE APPROACH.
6. APPROACH, CURB AND GUTTER SUBGRADE COMPACTED TO 95% A MINIMUM OF 6".
7. BROOM SWEEP FINISH ON DRIVEWAY APPROACH.
8. E.C.R. = END OF CURB RETURN.
9. MEASUREMENT: DRIVE APPROACH FROM BACK OF CURB TO BACK OF WALK, WING TO WING-SF, CURB & GUTTER-LF.

NOT TO SCALE

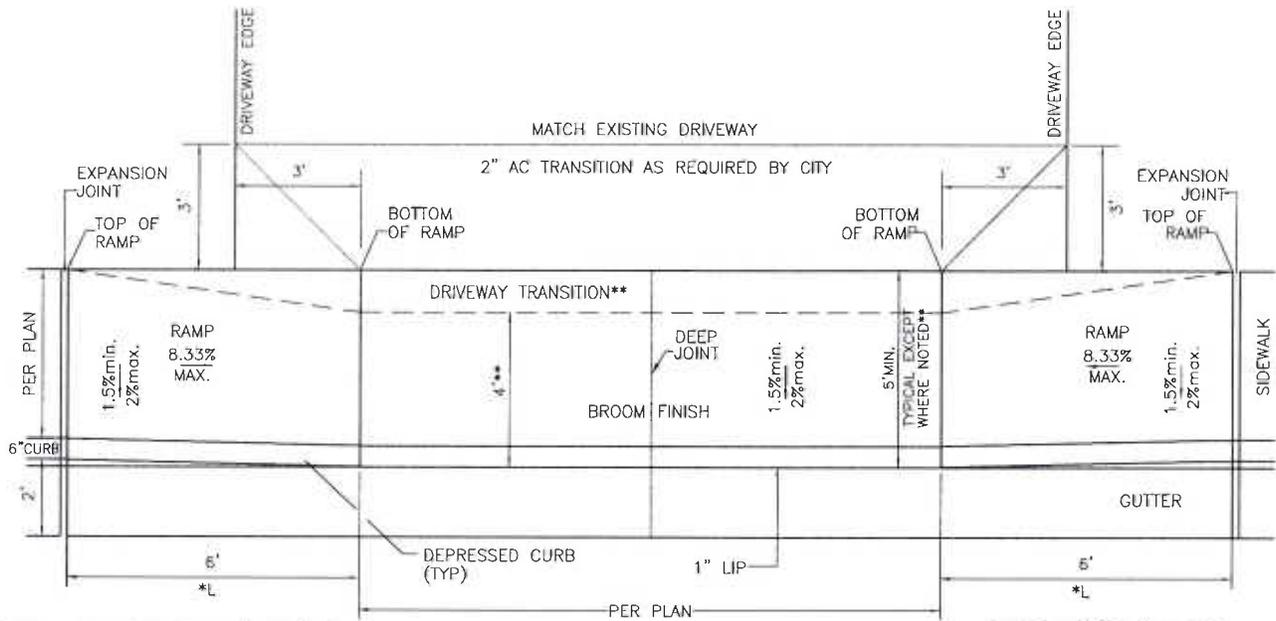
**RESIDENTIAL DRIVEWAY  
APPROACH WITH  
PLANTER STRIP**

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SEPT. 2016

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CITY OF REEDLEY

ST-19

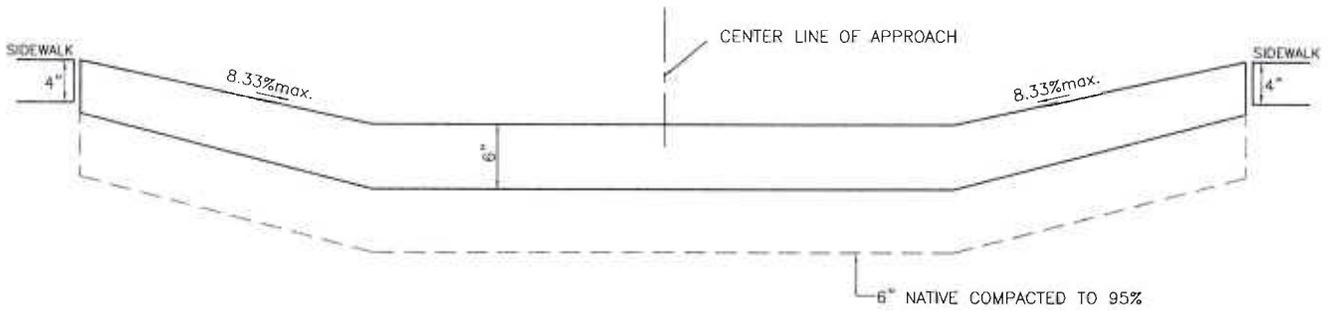


\* L SHALL BE ADJUSTED BASED ON THE HEIGHT OF THE MATCHING CURB FACE. RAMP NOT TO EXCEED 8.33% SLOPE (1 TO 12).

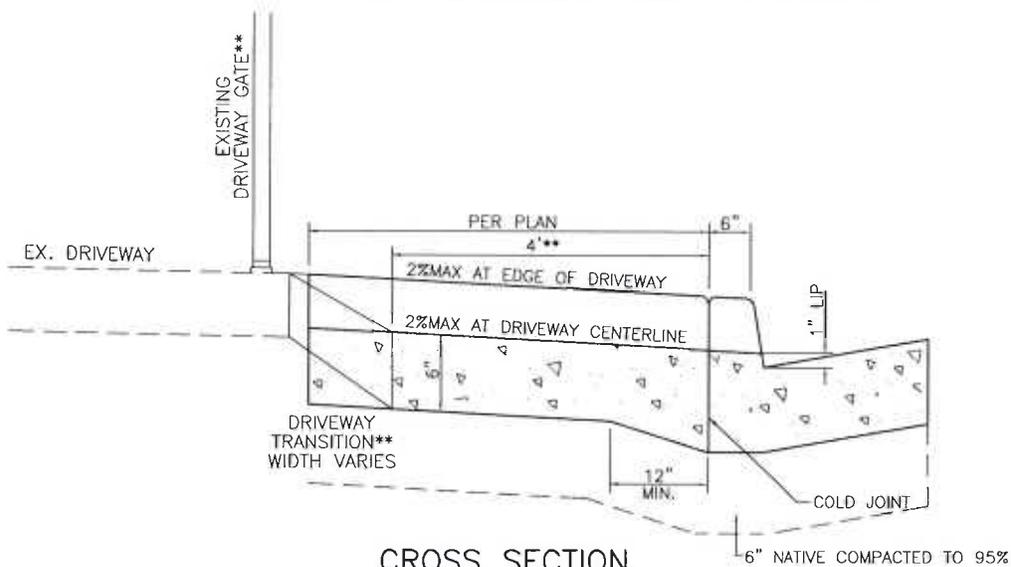
SCRIBE PATTERN TO MATCH SIDEWALK PATTERN.

**PLAN**

\*\* IN LOCATIONS WHERE THERE IS A SLIDING GATE, TAPER RAMP FROM 5' WIDE TO 4' AT APPROACH.



**LONGITUDINAL SECTION OF APPROACH**



**CROSS SECTION**

NOT TO SCALE

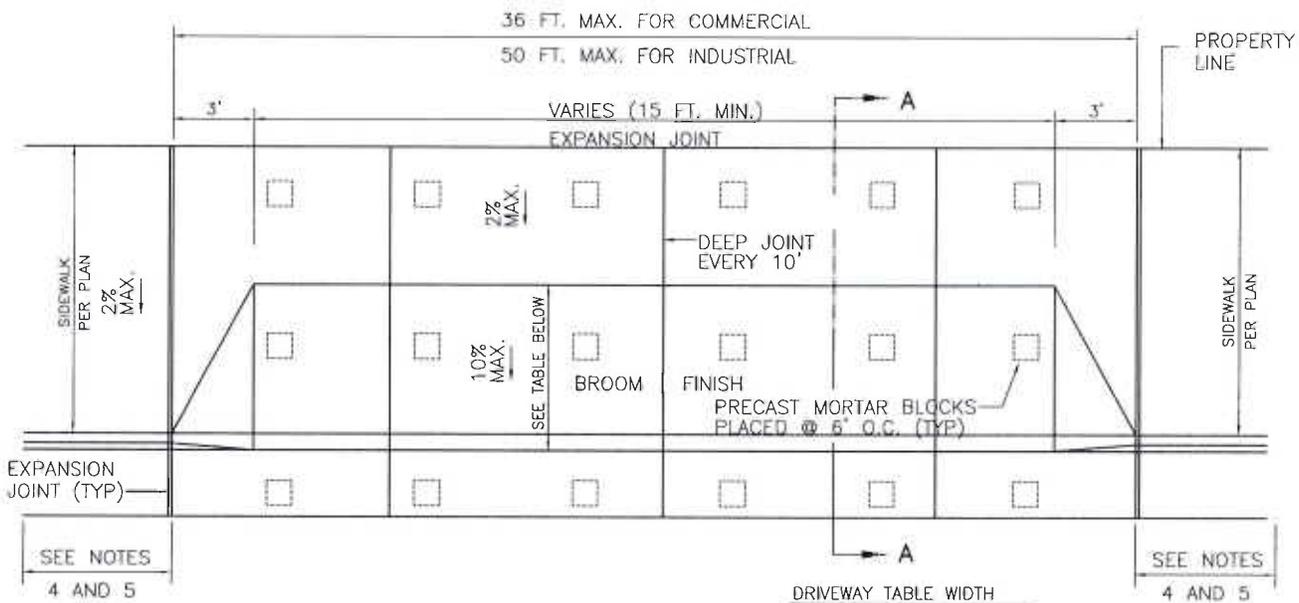
MINIMAL ENCROACHMENT  
RESIDENTIAL DRIVE APPROACH

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

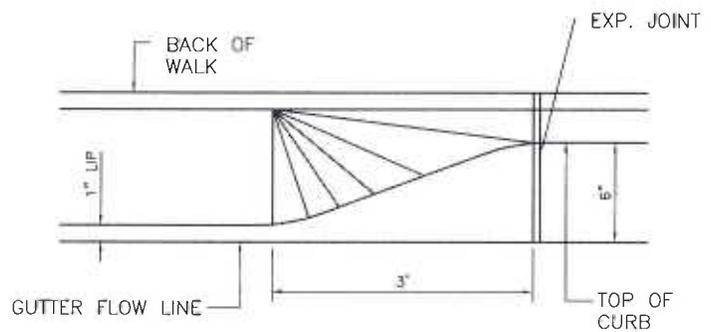
ST-20



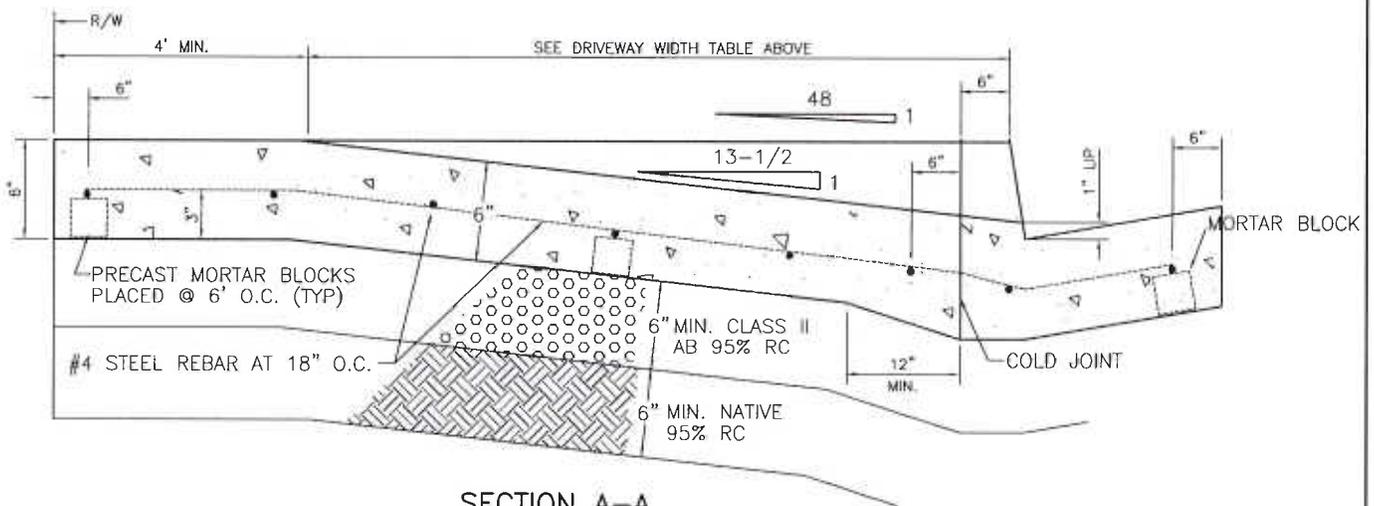
**NOTES:**

1. 95% RC (RELATIVE COMPACTION) BENEATH DRIVEWAY TO DEPTH OF 6".
2. CONCRETE FOR DRIVEWAY APPROACH SHALL BE CLASS "A" 4000 PSI, 5" MAX. SLUMP.
3. NOT OVER 60% OF FRONTAGE MEASURED AT STREET SIDE TOP OF CURB BETWEEN LOT LINES EXTENDED SHALL BE DEVOTED TO DRIVEWAY APPROACHES.
4. MINIMUM DISTANCE BETWEEN DRIVEWAYS EQUALS WIDTH OF LARGEST DRIVEWAY.
5. MINIMUM DISTANCE TO ALLEY OR NON-STREET PROPERTY SHALL BE 3 FT. & TO END OF CURB RETURN SHALL BE 10 FT.
6. REINFORCING BARS SHALL BE DEFORMED STEEL BARS, GRADE 40 MIN. & BE FREE FROM RUST OR DIRT & SHALL BE THOROUGHLY CLEANED BEFORE PLACEMENT - SHOWN BELOW.
7. MAINTAIN 6" CLEARANCE BETWEEN ALL JOINTS AND ENDS OF STEEL REINFORCING.
8. ALL MULTI-FAMILY RESIDENTIAL PROPERTIES TO HAVE ON-SITE REFUSE PICKUP SHALL INSTALL COMMERCIAL DRIVEWAY APPROACHES PER THIS CITY OF REEDLEY STD. PLAN.
9. COLLECTOR & ARTERIAL STREETS MINIMUM WIDTH OF THROAT SHALL BE 21' FOR 1-WAY APPROACH & 36' FOR 2-WAY APPROACH.

**PLAN**



**ELEVATION DETAIL**



**SECTION A-A**

NOT TO SCALE

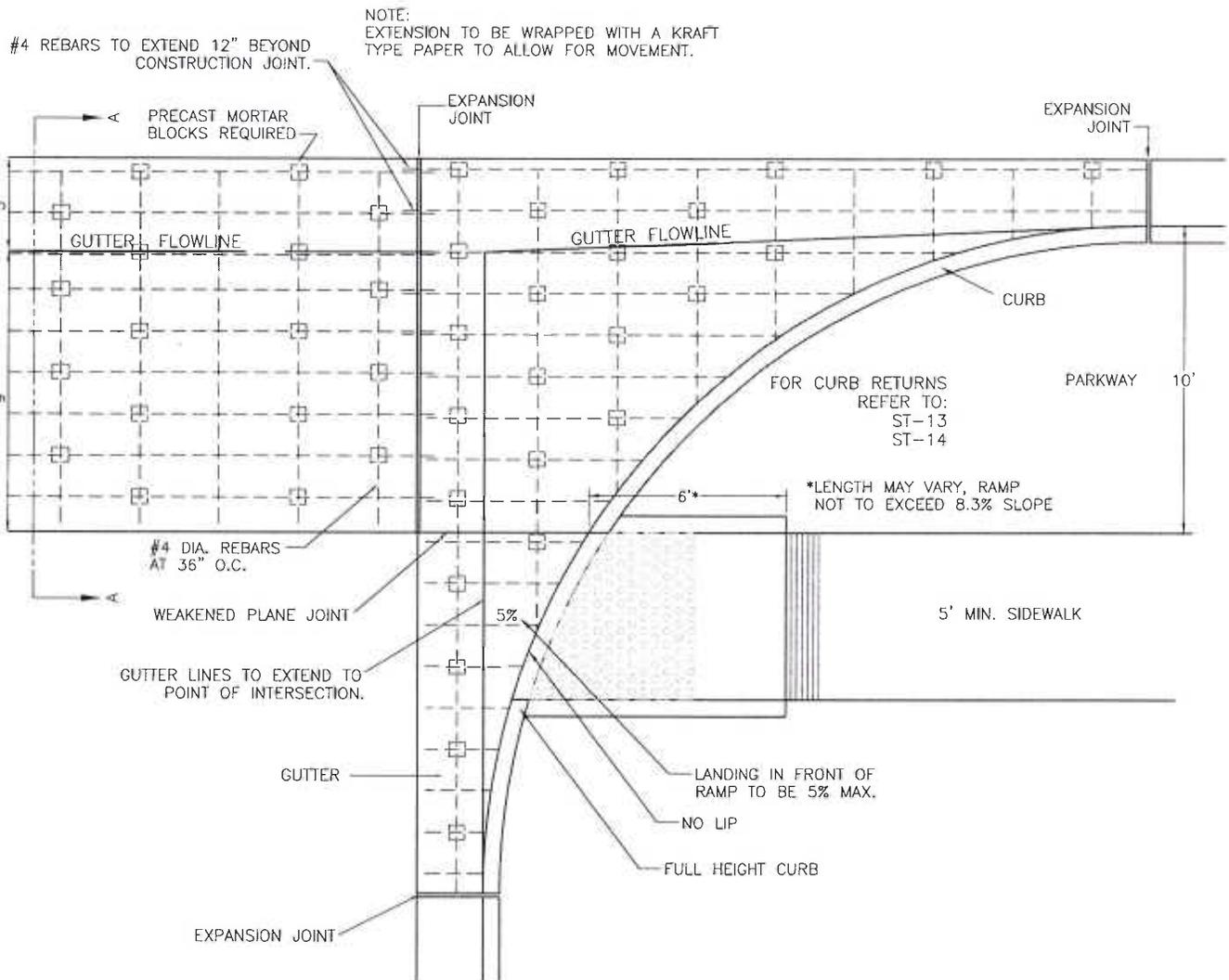
COMMERCIAL/INDUSTRIAL  
DRIVEWAY APPROACH

REVISIONS:  
SEPT. 2016

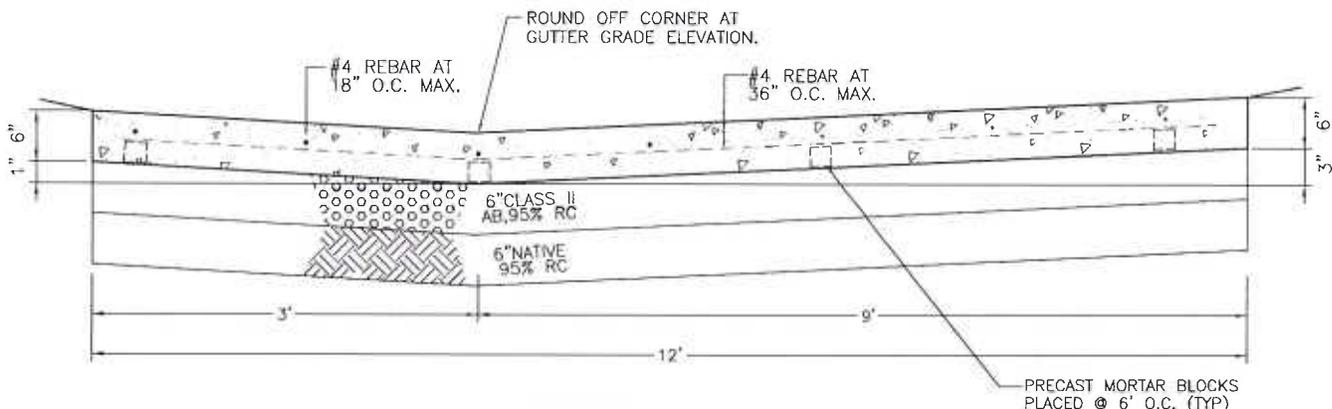
DRAWN BY: kjp

CITY OF REEDLEY

ST-21



**PLAN**



**SECTION A-A**

- NOTES:**
1. MUST REPLACE EX. CURB & GUTTER WHEN RECONSTRUCTION IS REQUIRED.
  2. CONCRETE SHALL BE CLASS 'A' 4000 PSI, MAX. 5" SLUMP.
  3. STEEL REINFORCEMENT TO BE FREE OF RUST & PLACED AS SHOWN.
  4. AB & NATIVE SUBGRADE TO BE COMPACTED TO A MIN. OF 95%. COMPACTION TESTS REQUIRED.
  5. BROOM FINISH.
  6. DETECTABLE WARNING SURFACE REQUIRED FULL WIDTH & 3' DEPTH OF RAMP.

NOT TO SCALE

MAJOR COMMERCIAL  
DRIVE APPROACH

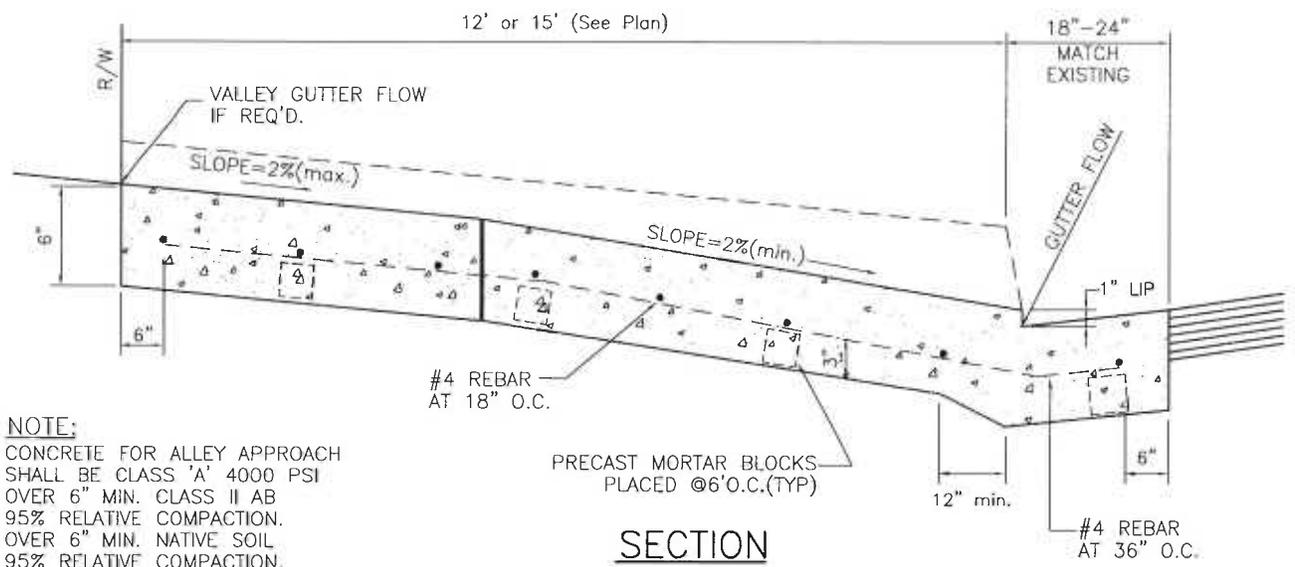
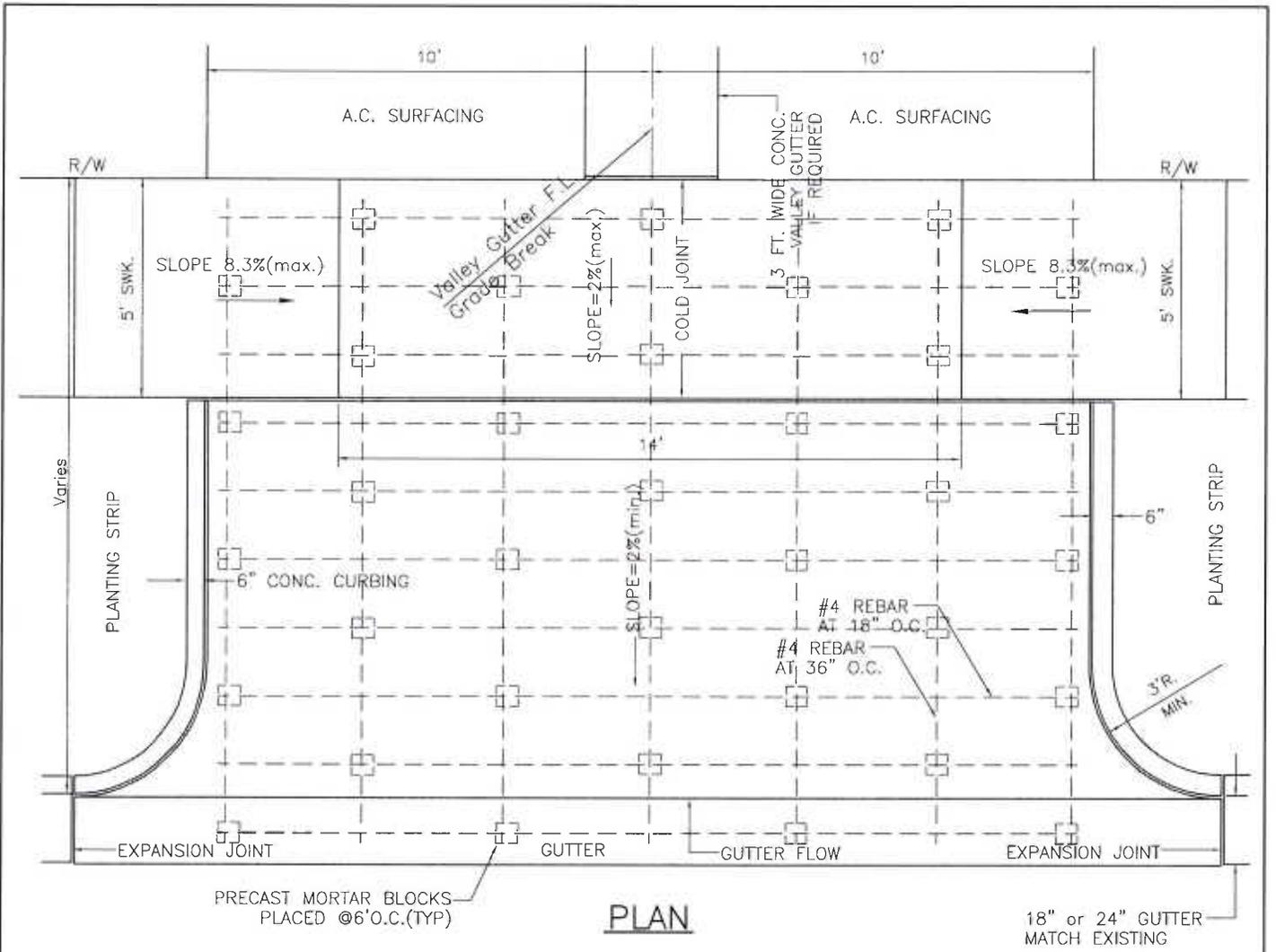
REVISIONS:  
SEPT, 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-22



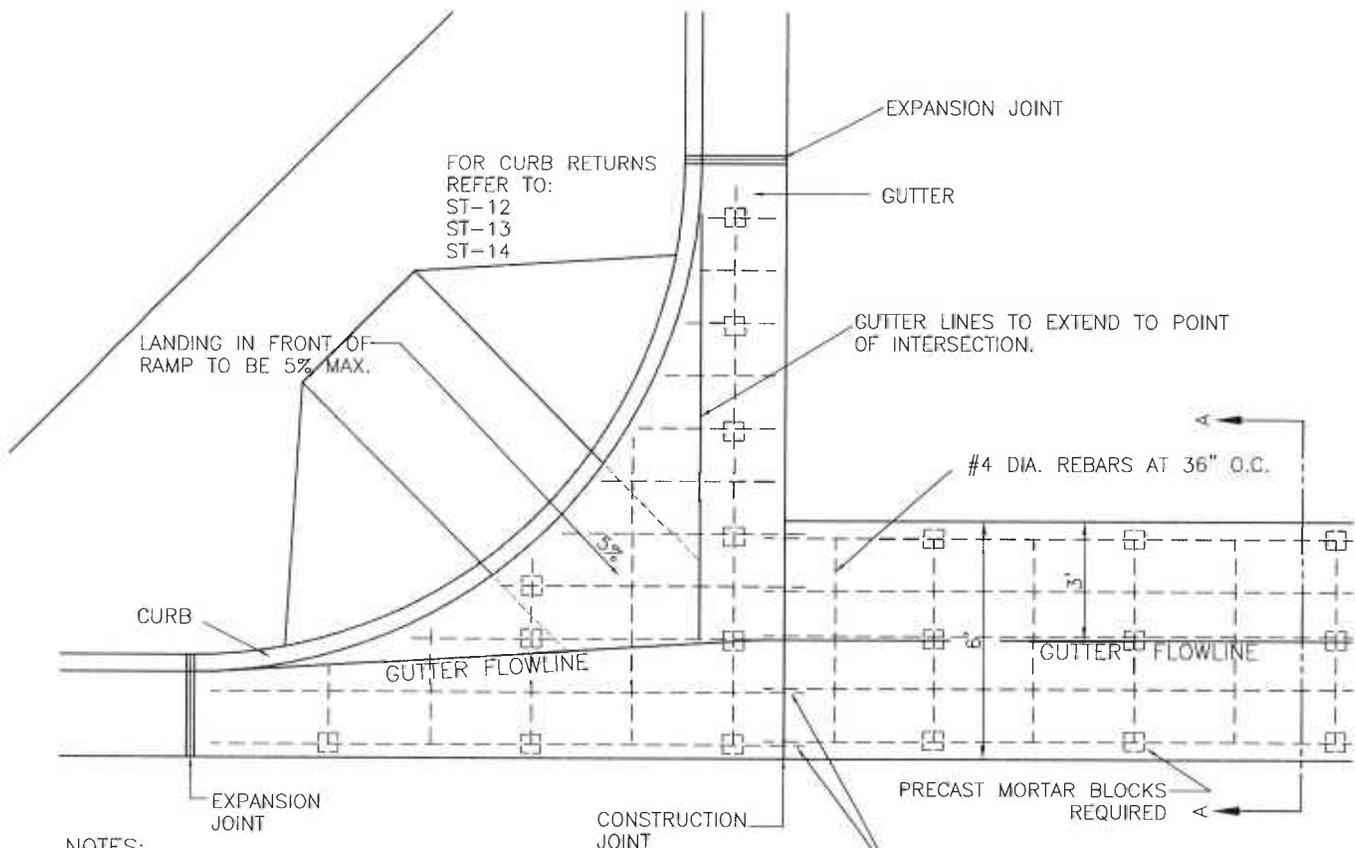


**NOTE:**  
 CONCRETE FOR ALLEY APPROACH SHALL BE CLASS 'A' 4000 PSI OVER 6" MIN. CLASS II AB 95% RELATIVE COMPACTION. OVER 6" MIN. NATIVE SOIL 95% RELATIVE COMPACTION.

O.C. = On Center

NOT TO SCALE

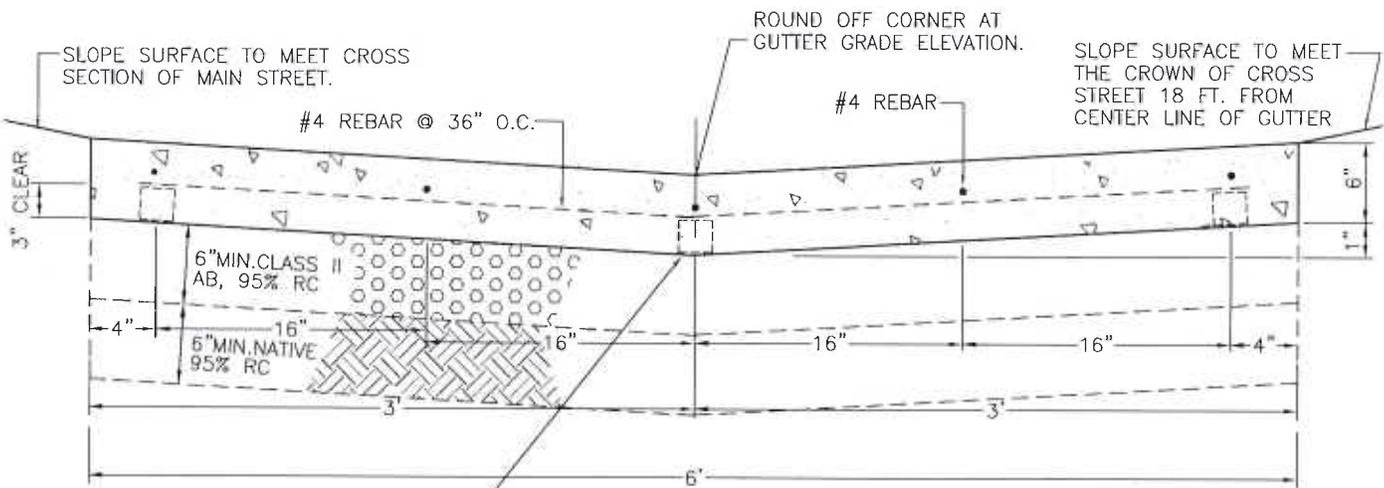
<h1>ALLEY APPROACH</h1> <p>AREAS WITH PLANTING STRIPS</p>	REVISIONS: SEPT. 2016	CITY OF REEDLEY
	DRAWN BY: kjp	<h1>ST-24</h1>



**NOTES:**

1. MUST REPLACE EX. CURB & GUTTER WHEN RECONSTRUCTION IS REQUIRED.
2. CONCRETE SHALL BE CLASS 'A' 4000 PSI, MAX. 5" SLUMP.
3. STEEL REINFORCEMENT TO BE FREE OF RUST & PLACED AS SHOWN.
4. AB & NATIVE SUBGRADE TO BE COMPACTED TO A MIN. OF 95%. COMPACTION TESTS REQUIRED.
5. LIGHT BROOM FINISH.
6. GUTTER FLOW LINE SHALL BE WATER TESTED FOR FLOW.

**PLAN**



**SECTION A-A**

O.C. = On Center

NOT TO SCALE

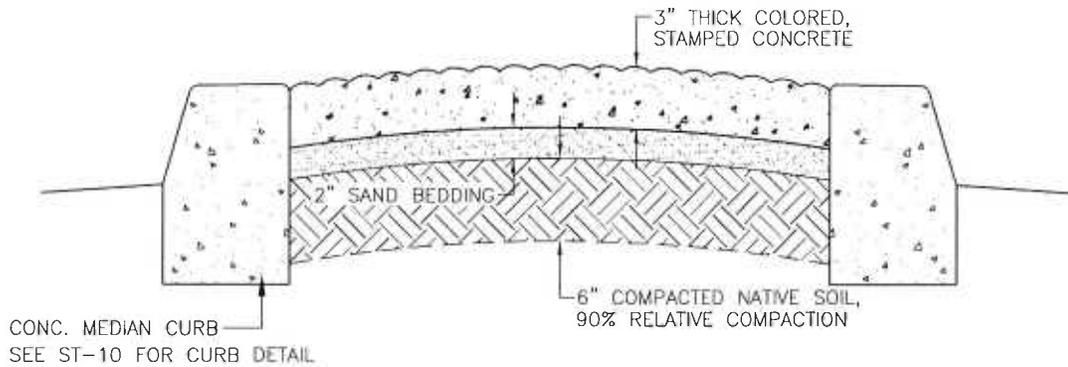
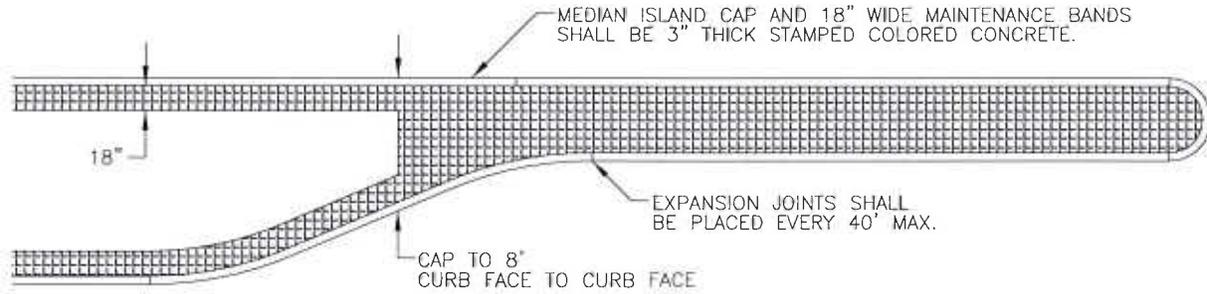
CONCRETE CROSS VALLEY GUTTER

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CITY OF REEDLEY

ST-25



**NOTES**

STAMPED CONCRETE SHALL BE CLASS 'A' 4,000 PSI MIN. COLORED, CONCRETE 'FRANCISCAN RED' STAMPED IN A BRICK PATTERN SIMILAR TO EXISTING MEDIANS ON I STREET AND REINFORCED WITH #4 REBAR 12" O.C.

A LIQUID RELEASE AGENT SHALL BE USED. A CURE AND SEAL PRODUCT SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY AFTER COMPLETING THE IMPRINTING PROCESS.

NOT TO SCALE

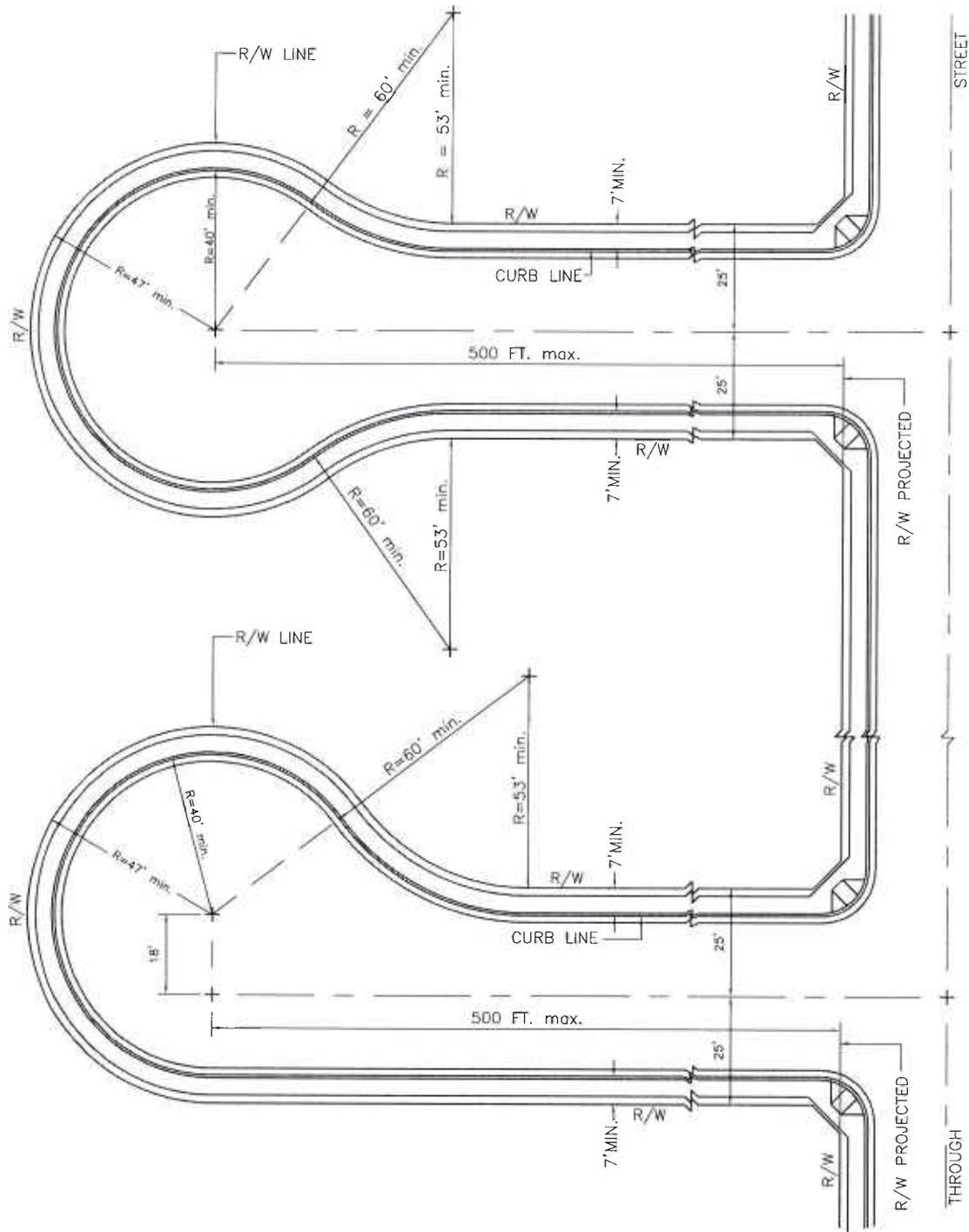
STAMPED CONCRETE  
MEDIAN

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SEPT. 2016

DRAWN BY: *kjp*

CITY OF REEDLEY

ST-26



NOTES:

1. STREET STRUCTURAL SECTION SHALL CONFORM TO CITY OF REEDLEY STD. PLAN ST-1.
2. MAXIMUM RADIUS OF CURVATURE OF CENTERLINE SHALL BE 175 FEET.
3. MINIMUM STREET WIDTH (CURB-FACE TO CURB-FACE) SHALL BE 36 FEET.

NOT TO SCALE

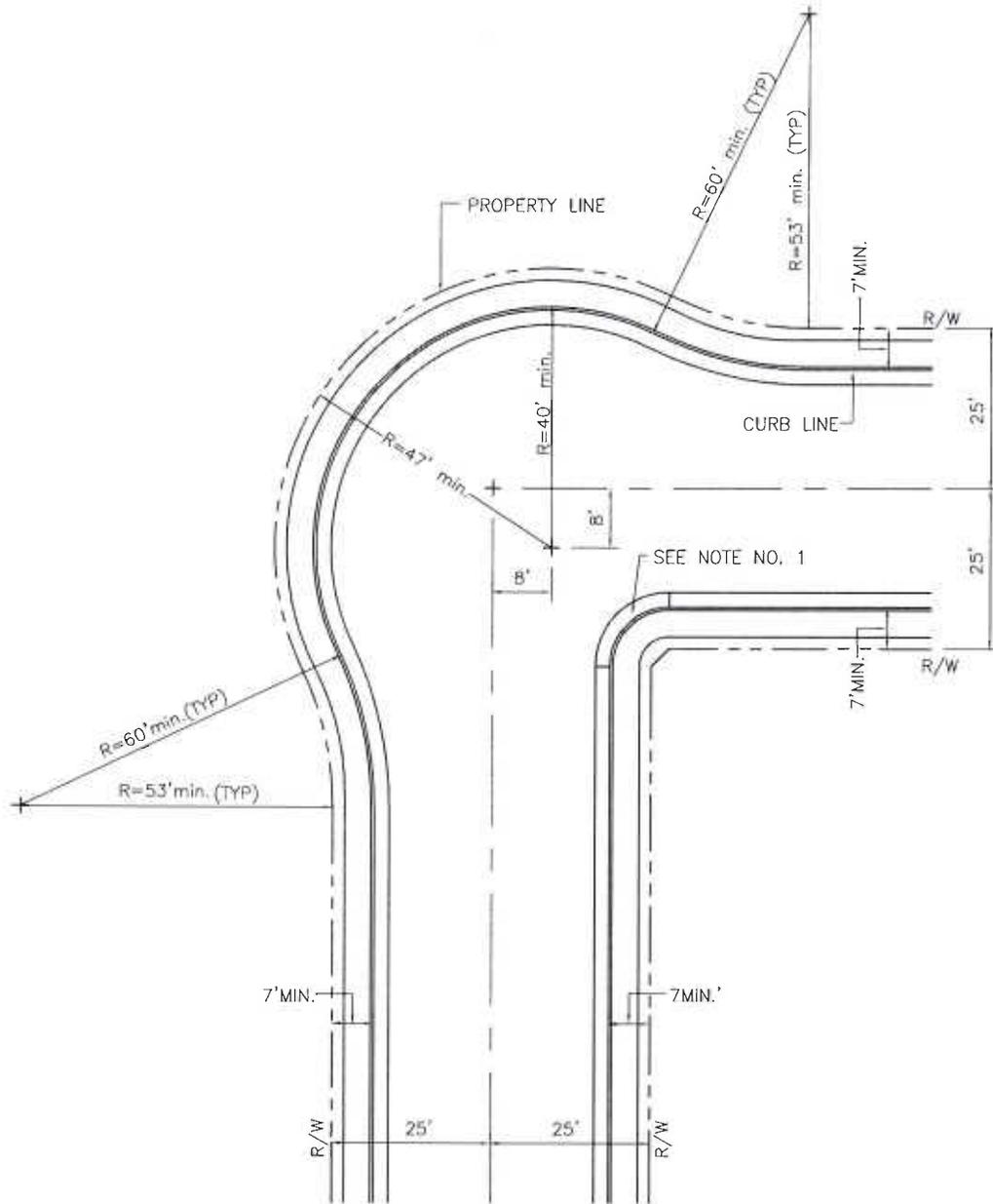
STANDARD CUL-DE-SAC

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SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-27



NOTES:

1. 12 FT. RADIUS CURB RETURN WITH SIDEWALK.
2. STREET STRUCTURAL SECTION SHALL CONFORM TO CITY OF REEDLEY STD. PLANS ST-1.
3. MINIMUM STREET WIDTH (CURB-FACE TO CURB-FACE) SHALL BE 36 FT.

NOT TO SCALE

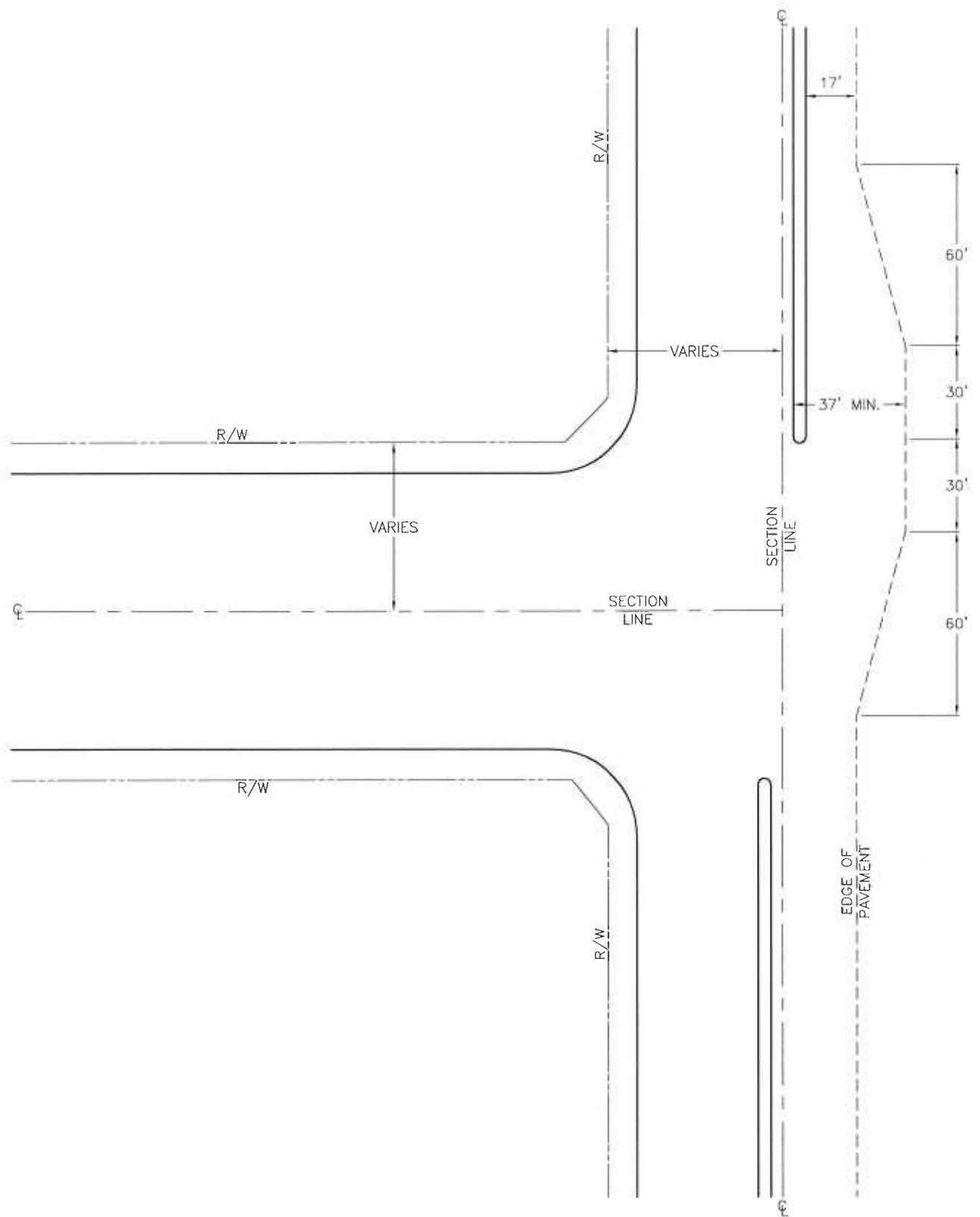
KNUCKLE CURVE

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CITY OF REEDLEY

ST-28



NOT TO SCALE

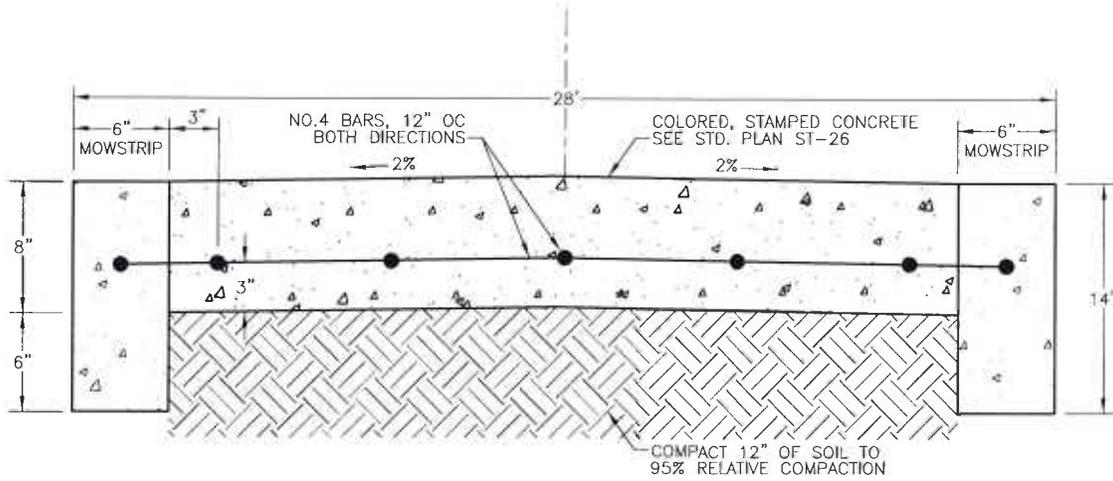
# U-TURN MINIMUM CLEARANCE

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SEPT. 2016

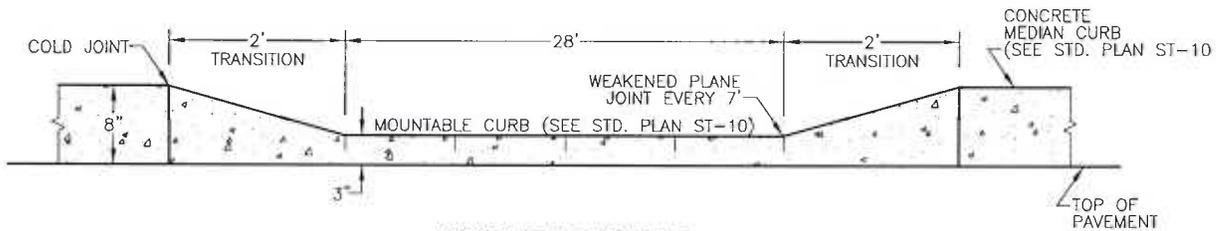
DRAWN BY: kjp

CITY OF REEDLEY

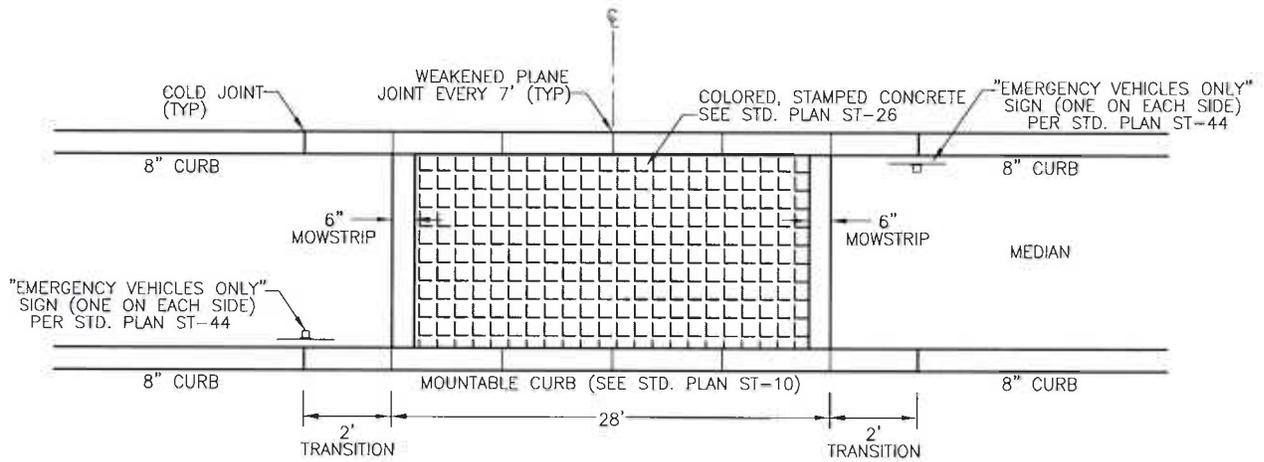
ST-29



**REINFORCED CONCRETE APRON**



**CURB FACE PROFILE**



**MEDIAN OPENING PLAN VIEW**

NOT TO SCALE

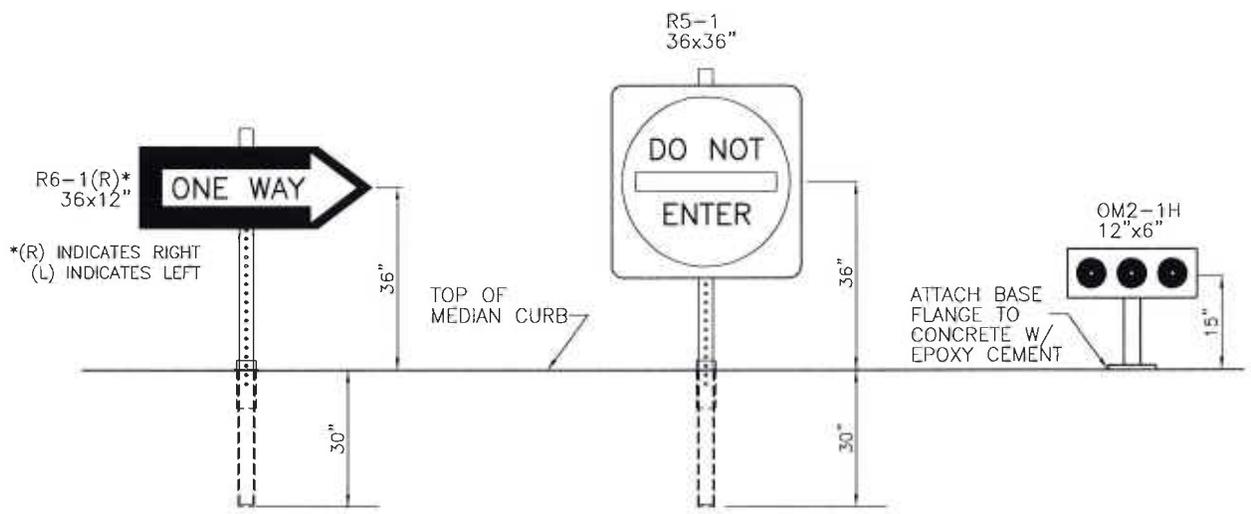
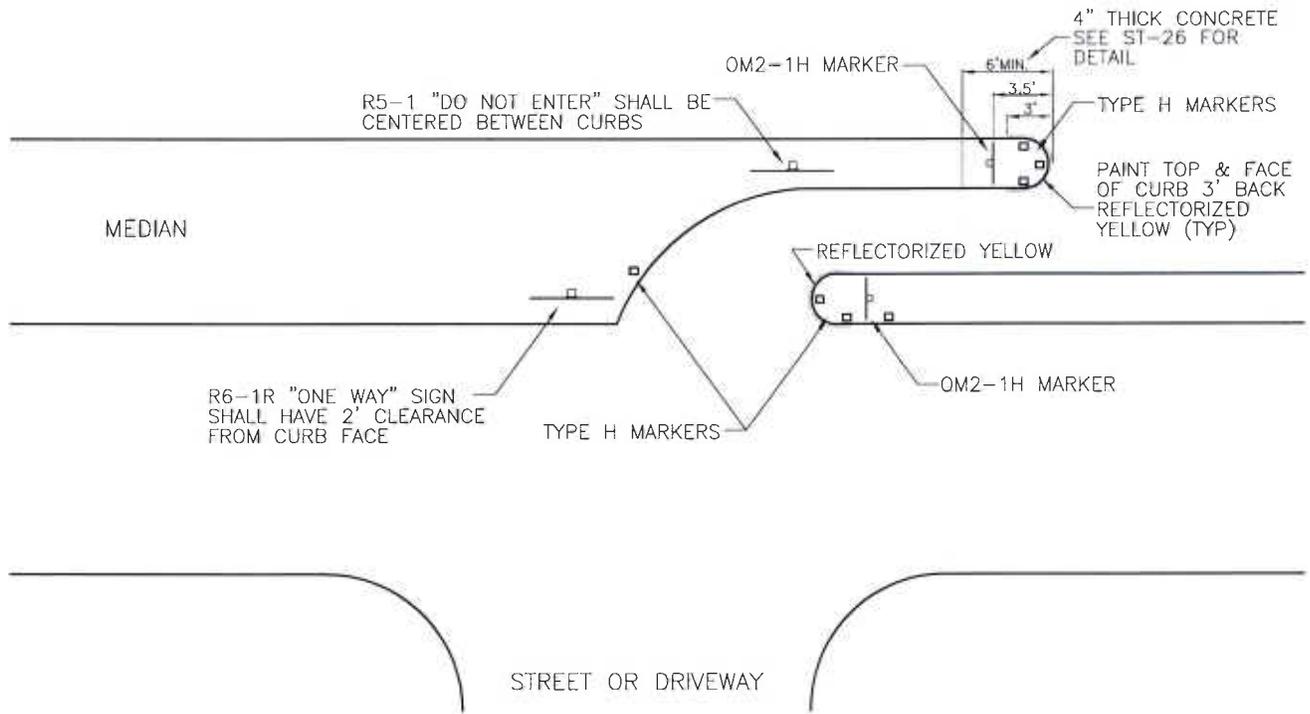
MEDIAN OPENING  
FOR EMERGENCY VEHICLES

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SEPT. 2016

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CITY OF REEDLEY

ST-30



**NOTES:**

1. POST AND FLANGE FOR OM2-1H MARKER SHALL BE SCH.80 PVC, 2-1/4" MIN. YELLOW REFLECTORS ON WHITE.
2. TYPE H MARKERS SHALL BE ONE WAY YELLOW RETROREFLECTIVE AND SHALL BE CEMENTED TO THE TOP CURB WITH A RAPID SET TYPE EPOXY ADHESIVE IN CONFORMANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
3. POSTS FOR STREET SIGNS SHALL BE 12 GAUGE 2" X 2" SQUARE, GALVANIZED & PERFORATED. SEE DETAIL ON STD PLAN ST-44.

NOT TO SCALE

MEDIAN ISLAND  
OPENING SIGNING

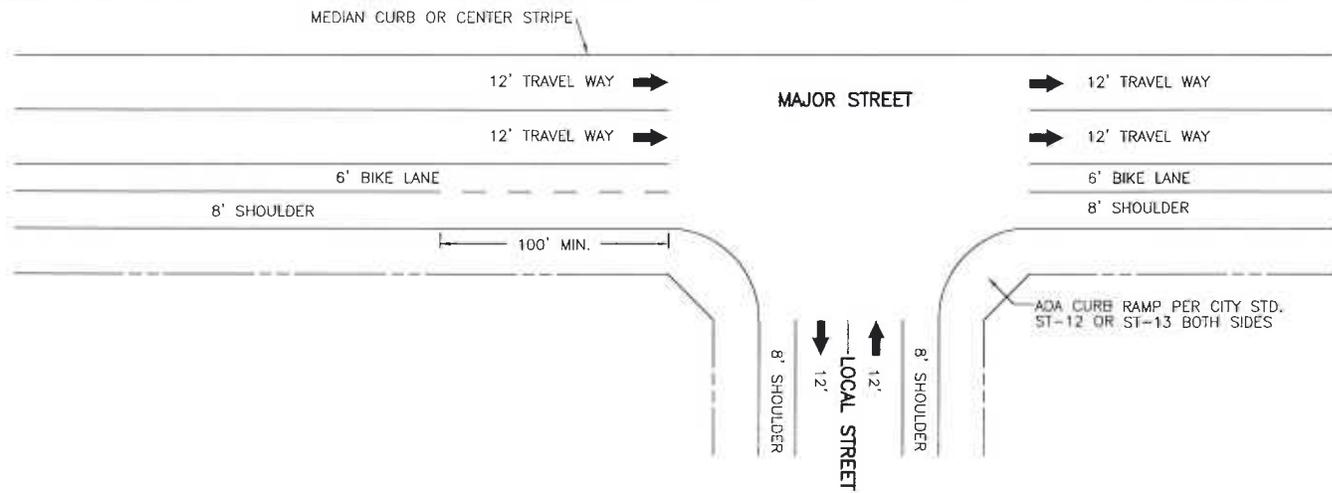
REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

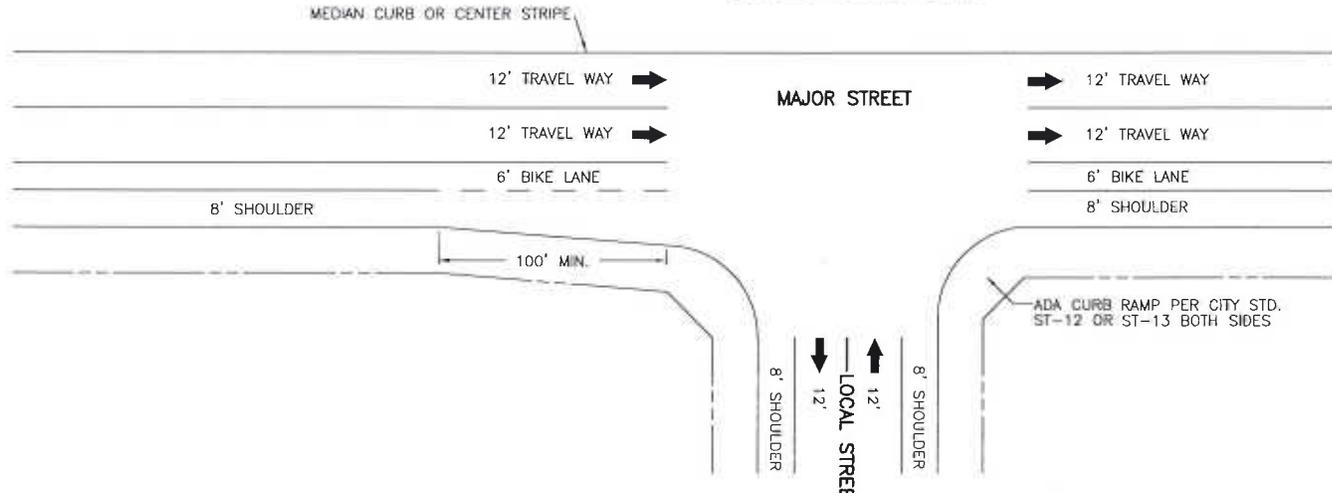
CITY OF REEDLEY

ST-31

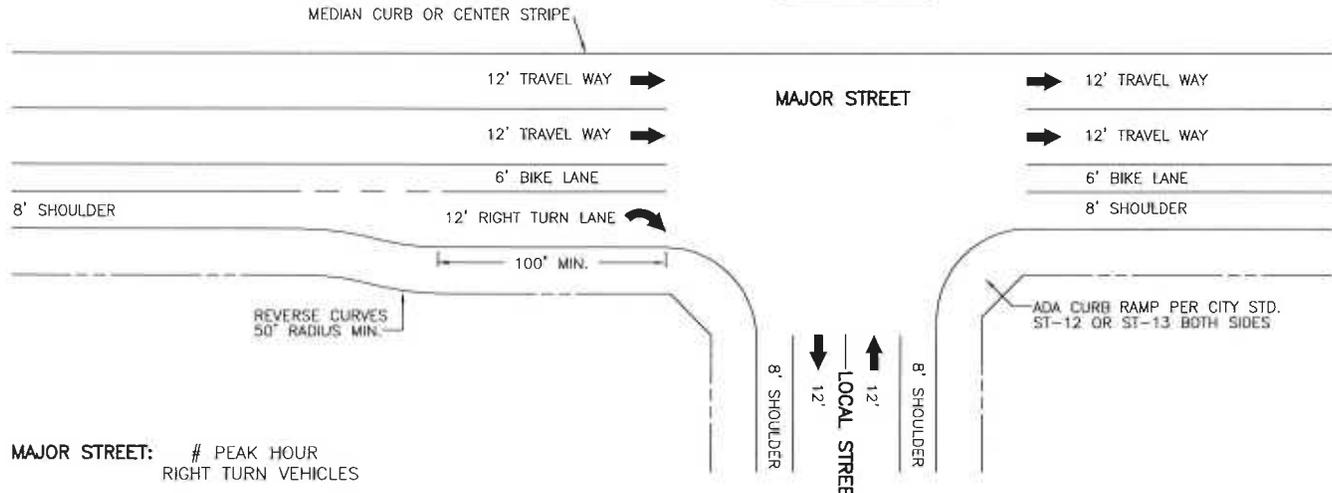




**CASE 1: SHARED LANE**



**CASE 2: TAPER**



**CASE 3: RIGHT TURN POCKET**

MAJOR STREET: # PEAK HOUR RIGHT TURN VEHICLES

	CASE 1	CASE 2	CASE 3
35	<50	<50-<100	≤100
40	<40	<40-<90	≤90
45	<30	<30-<80	≤80
>50	<20	<20-<75	≤75

**NOTES:**

CASE 2: NOT ALLOWED WHEN AT A SIGNALIZED INTERSECTION.

CASE 3: \*\*EXCEPTIONS NEED TO BE APPROVED BY CITY ENGINEER.

NOT TO SCALE

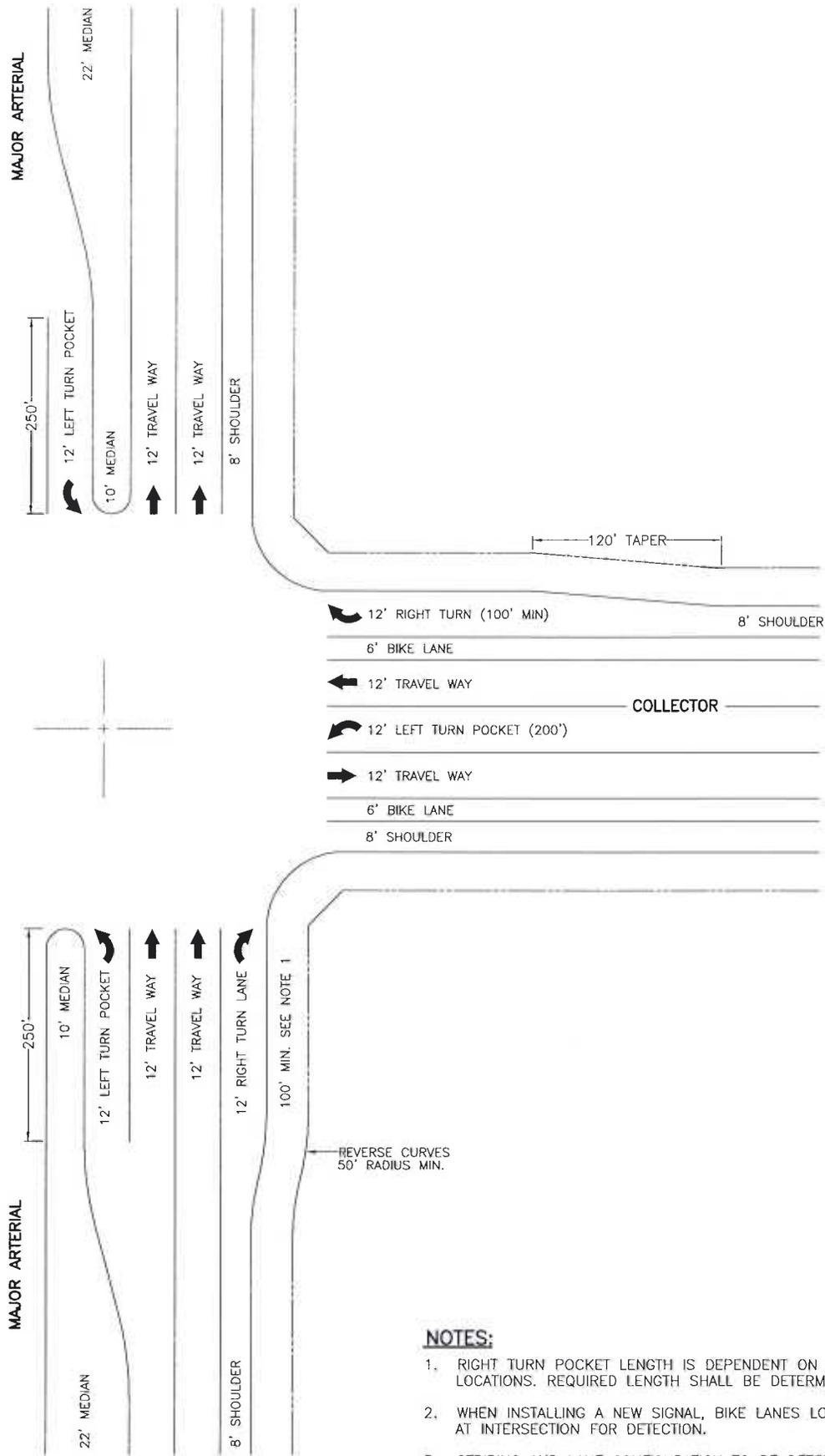
**STREET CONNECTIONS**

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SEPT. 2016

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CITY OF REEDLEY

ST-33



**NOTES:**

1. RIGHT TURN POCKET LENGTH IS DEPENDENT ON DRIVE APPROACH LOCATIONS. REQUIRED LENGTH SHALL BE DETERMINED BY CITY ENGINEER.
2. WHEN INSTALLING A NEW SIGNAL, BIKE LANES LOOPS SHALL BE INSTALLED AT INTERSECTION FOR DETECTION.
3. STRIPING AND LANE CONFIGURATION TO BE DETERMINED BY CITY ENGINEER.

NOT TO SCALE

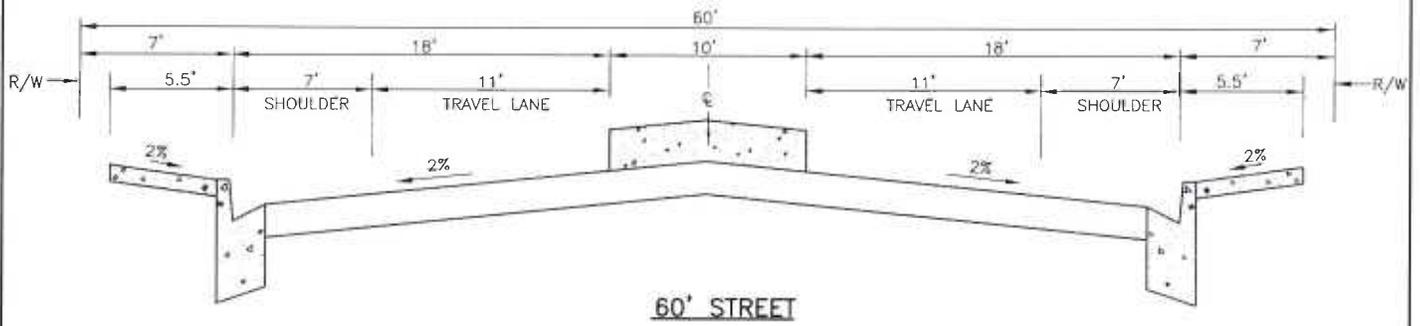
MAJOR STREET INTERSECTION DETAIL

REVISIONS:  
SEPT. 2016

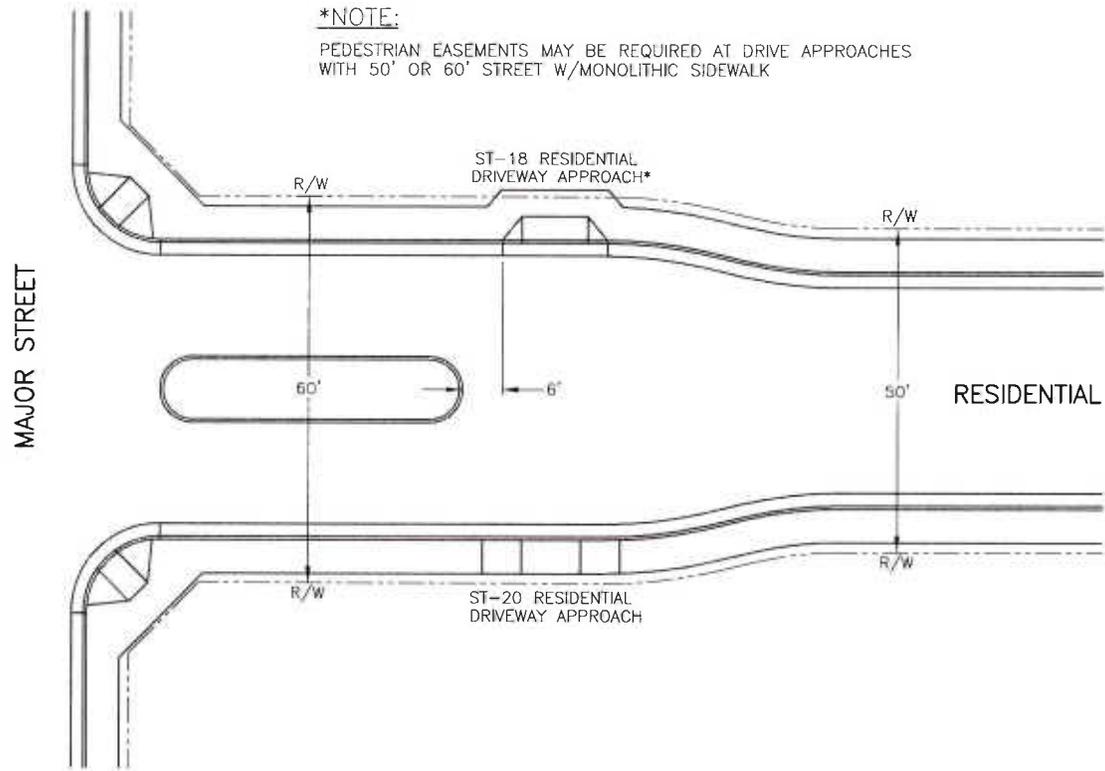
DRAWN BY: kjp

CITY OF REEDLEY

ST-34



**\*NOTE:**  
 PEDESTRIAN EASEMENTS MAY BE REQUIRED AT DRIVE APPROACHES WITH 50' OR 60' STREET W/MONOLITHIC SIDEWALK



- NOTES:**
1. GREATER RIGHT-OF-WAY MAY BE APPROVED IN SUCH CASE AS FOR A SIDEWALK W/PARKSTRIP OR FOR A MEANDERING SIDEWALK.
  2. THE MEDIAN ISLAND SHALL EXTEND FROM THE MAJOR STREET UNTIL THE CLOSEST SIDE OF THE FIRST DRIVEWAY.
  3. A 20' MINIMUM SETBACK FROM BACK OF SIDEWALK TO GARAGE WHEN THE GARAGE DOOR FRONTS ON THE STREET SHALL BE REQUIRED., THE ACTUAL SETBACK SHALL NOT BE LESS THAN REQUIRED BY THE ZONING ORDINANCE.

NOT TO SCALE

RESIDENTIAL  
 ENTRY TREATMENT

REVISIONS:  
 SEPT. 2016

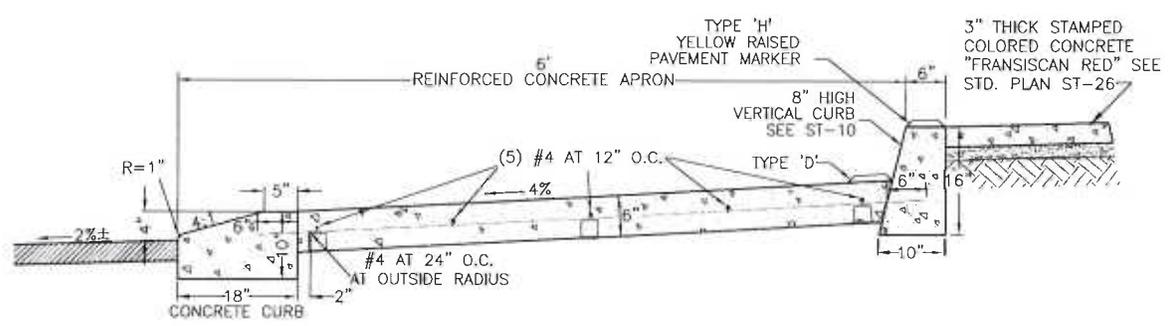
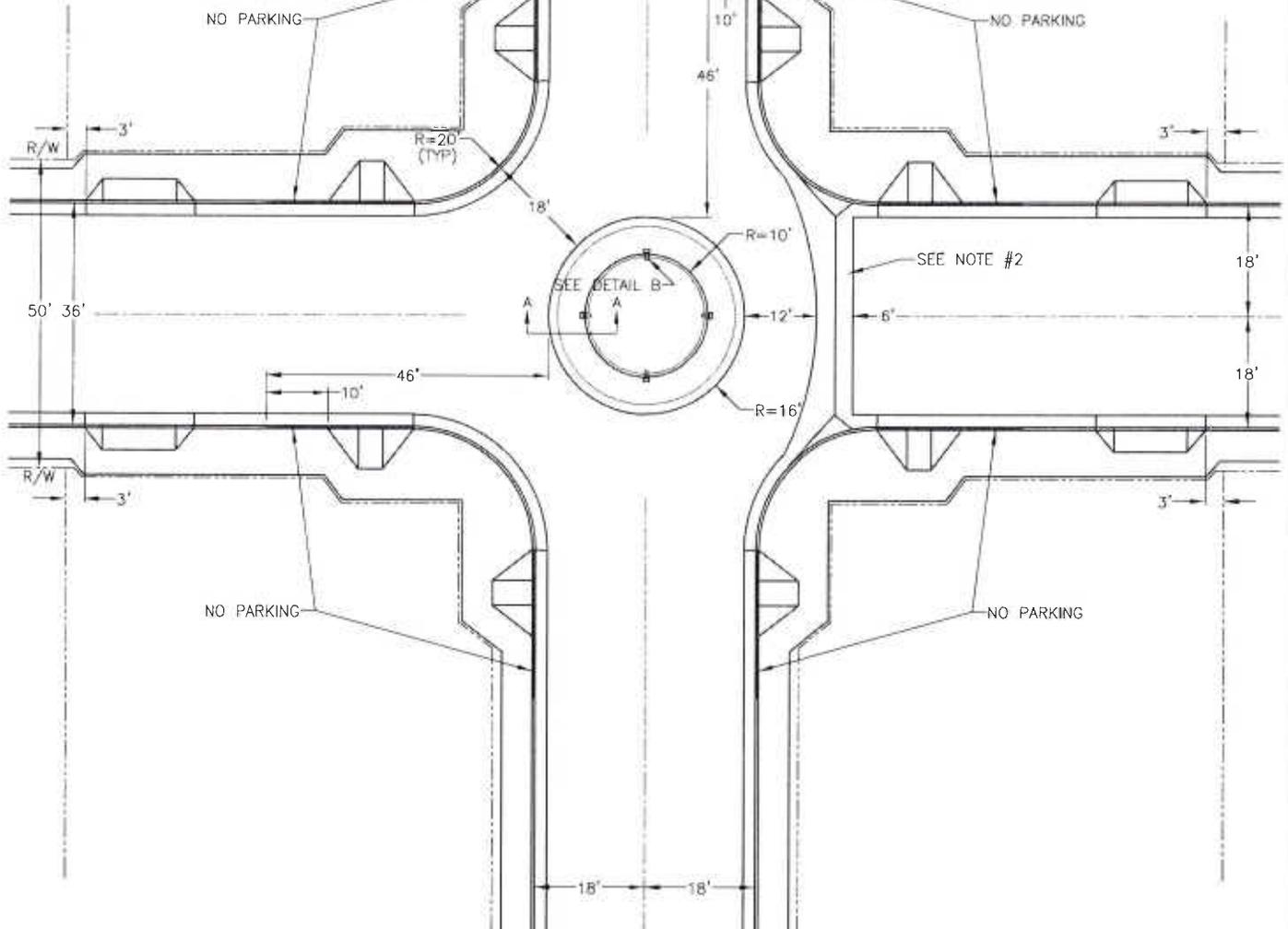
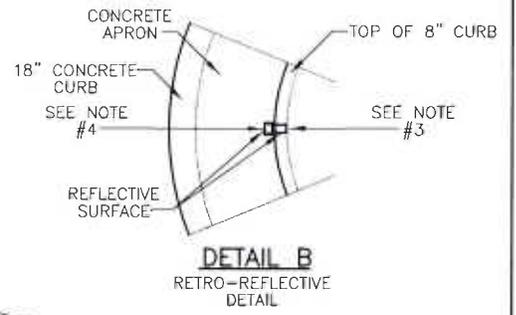
DRAWN BY: kjp

CITY OF REEDLEY

ST-35

**NOTES:**

1. SIGNING, STRIPING & TRAFFIC CIRCLE LANDSCAPING SHALL BE REVIEWED BY CITY ENGINEER.
2. VALLEY GUTTER LOCATION IF NEEDED, SEE STD. ST-25.
3. INSTALL TYPE 'H', YELLOW RETRO-REFLECTIVE, RAISED PAVEMENT MARKERS ON CURB (4 TOTAL).
3. INSTALL TYPE 'D', YELLOW RETRO-REFLECTIVE, RAISED PAVEMENT MARKERS ON APRON NEXT TO 8" CURB (4 TOTAL).



**SECTION A-A**

NOT TO SCALE

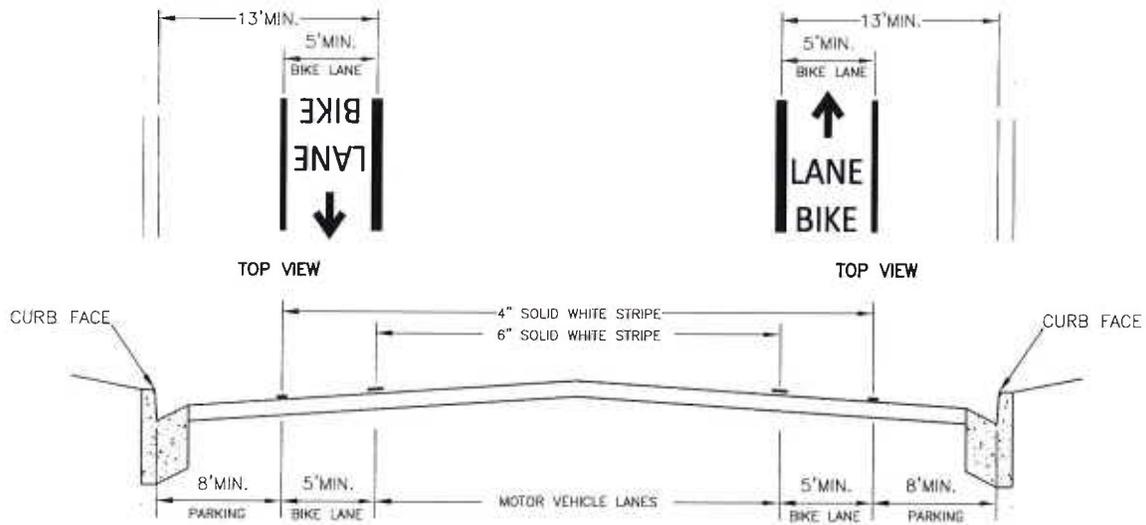
RESIDENTIAL TRAFFIC CIRCLE  
FOR FOUR-WAY INTERSECTION

REVISIONS:  
SEPT. 2016

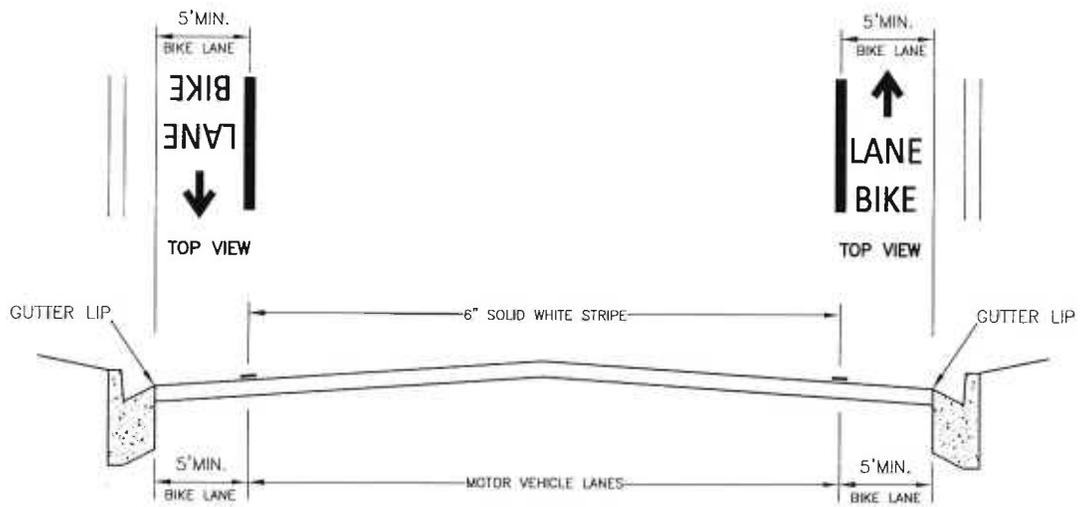
DRAWN BY: kjp

CITY OF REEDLEY

ST-36



**CASE I**



**CASE II**

**NOTES:**

1. SIGNS R26(S)CA "NO STOPPING AT ANY TIME" SHALL INSTALLED AT 200 FOOT INTERVALS. (OR AT INTERVALS DETERMINED BY EXISTING STREETLIGHT POLES) WHEN STRIPING A CASE II BIKE LANE.

NOT TO SCALE

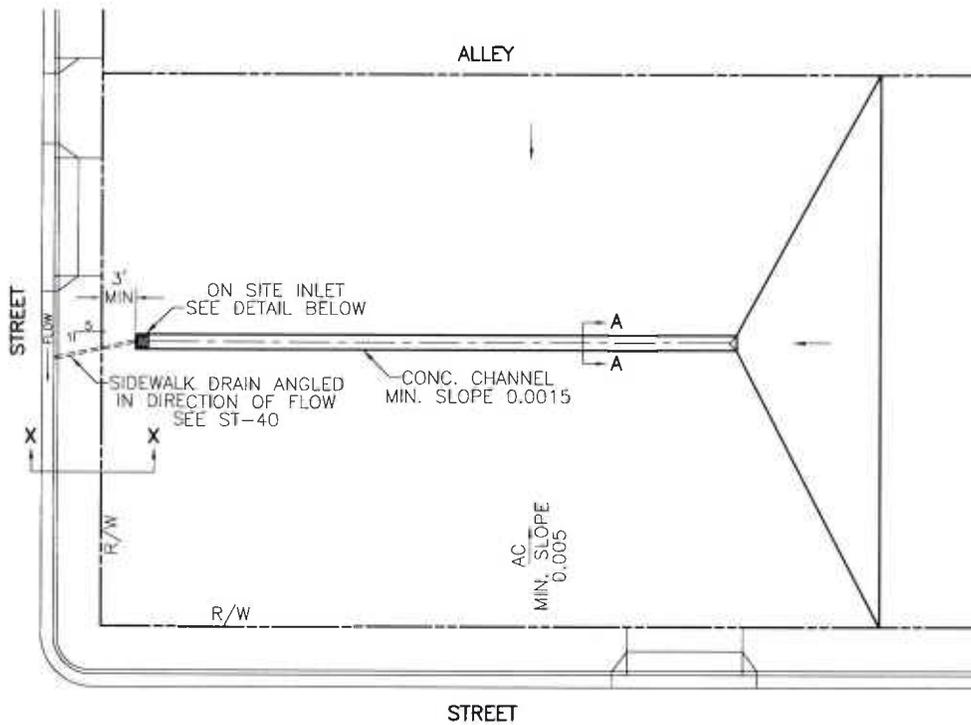
TYPICAL BIKE LANE  
CROSS-SECTIONS

REVISIONS:  
SEPT. 2016

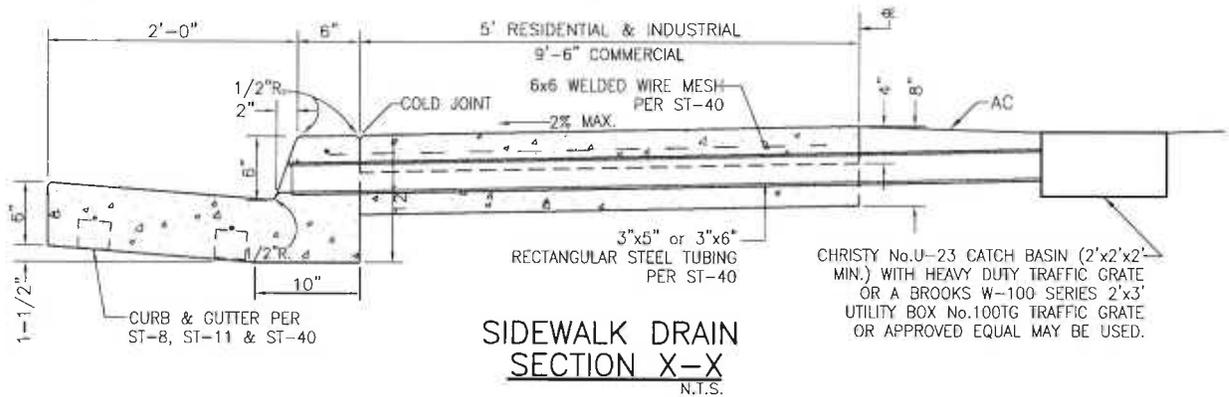
DRAWN BY: kjp

CITY OF REEDLEY

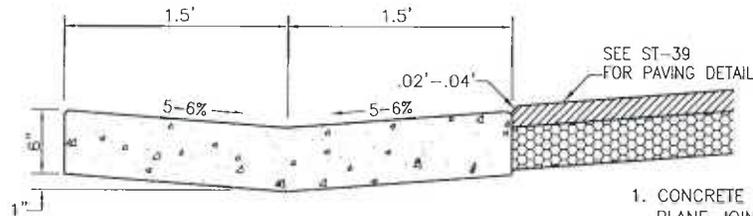
ST-37



PLAN VIEW



SIDEWALK DRAIN SECTION X-X  
N.T.S.



CONCRETE CHANNEL SECTION A-A  
N.T.S.

1. CONCRETE CHANNEL TO HAVE WEAKENED PLANE JOINTS AT 20' O.C. AND EXPANSION JOINTS AT 40' O.C.
2. SURFACE DRAINAGE TO ALLEY ONLY BY WRITTEN APPROVAL OF THE CITY ENGINEER.
3. SURFACE DRAINAGE OVER DRIVEWAYS AND SIDEWALKS IS NOT PERMITTED WHEN THE AREA TO BE DRAINED EXCEEDS 1/4 ACRE (10,890 SF).

NOT TO SCALE

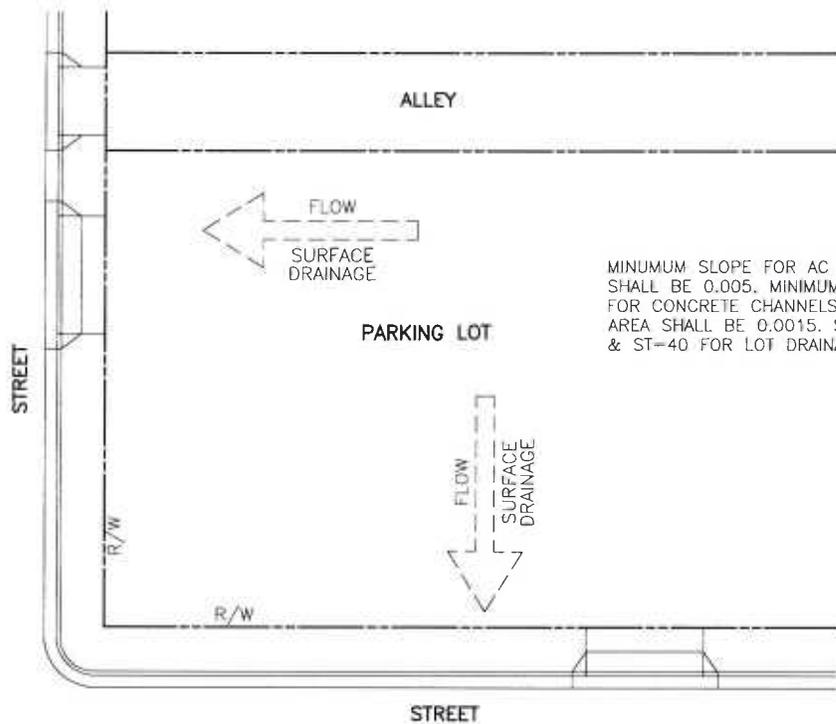
PARKING LOT  
DRAINAGE DETAILS

REVISIONS:  
SEPT. 2016

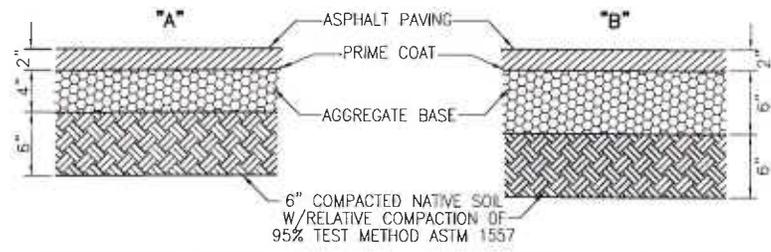
DRAWN BY: kjp

CITY OF REEDLEY

ST-38

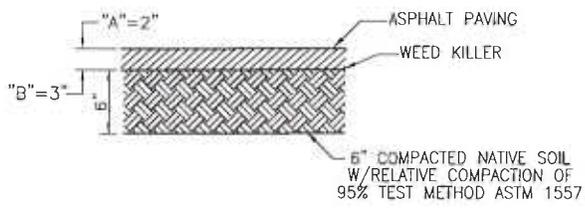


PLAN VIEW



PARKING LOTS

INDUSTRIAL PARKING LOTS AND LOADING ZONES



OPTIONAL-WITH APPROVED TEST

**NOTES:**

1. SURFACE DRAINAGE SHALL BE TO STREET ONLY BY WRITTEN APPROVAL OF THE CITY ENGINEER.
2. PARKING BUMPERS TO BE PLACED SO THAT PARKED CARS WILL NOT OVERHANG ON SIDEWALKS OR STREETS.
3. THE OPTIONAL CROSS-SECTION MAY BE USED UPON SUBMISSION OF "R" VALUE TESTS TAKEN BY AN APPROVED LABORATORY SUBSTANTIATING THE USE OF EXISTING SOIL FOR THE BASE. A MINIMUM VALUE OF 65 WILL BE REQUIRED.
4. WHERE ASPHALT CONCRETE IS APPLIED TO THE NATIVE SOIL, SOIL STERILANT AS PER MANUFACTURER'S SPECIFICATIONS WILL BE REQUIRED BEFORE THE SURFACE MATERIAL IS PLACED. WEED KILLER TO BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
5. SURFACE DRAINAGE TO ALLEY ONLY BY WRITTEN APPROVAL OF THE CITY ENGINEER.
6. TEMPORARY PARKING LOTS (USE NOT TO EXCEED 60 DAYS) SHALL BE GRADED AND ROLLED SMOOTH. THE TOP 6" OF NATIVE SOIL SHALL BE COMPACTED TO 85% RELATIVE COMPACTION USING TEST METHOD ASTM 1557. A DUST PALLIATIVE PER STATE STANDARD SPECIFICATIONS AT THE RATE OF 1 GAL./SQ. YD. TO OBTAIN A MINIMUM PENETRATION OF 1". THE MIXING RATIO SHALL BE 4:1 PER STATE STANDARD SPECIFICATIONS. THE DEVELOPER SHALL POST A BOND TO GUARANTEE REMOVAL OF ALL IMPROVEMENTS FOR A TEMPORARY PARKING LOT.

NOT TO SCALE

PARKING LOT PAVING DETAILS

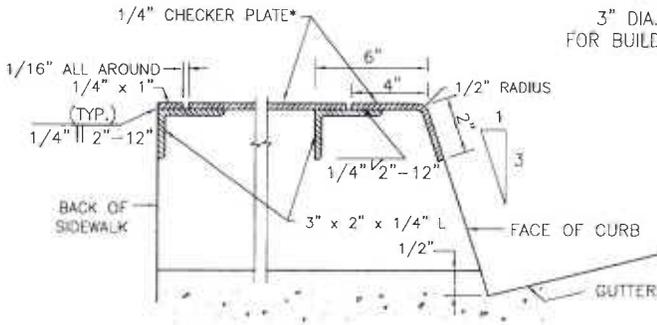
REVISIONS;  
SEPT. 2016

DRAWN BY: kjp

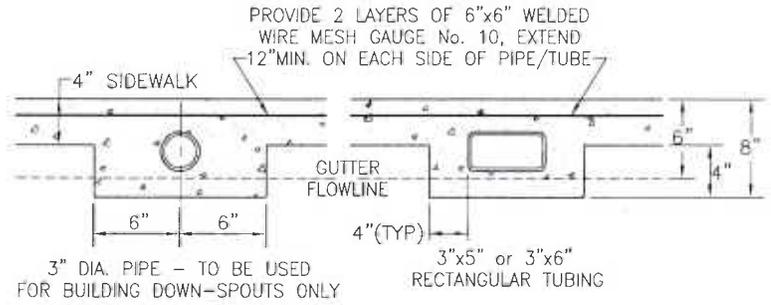
CITY OF REEDLEY

ST-39

\*ONE SECTION OF 1/4" CHECKER PLATE SHALL NOT EXCEED 5' IN LENGTH. PROVIDE 1"x1"x1/4" ANGLE IRON WELDED ON THE UNDERSIDE OF PLATES IF CHANNEL EXCEEDS 5 FEET.

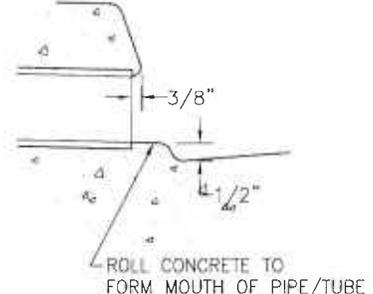


**CURB SIDE VIEW OF TROUGH**



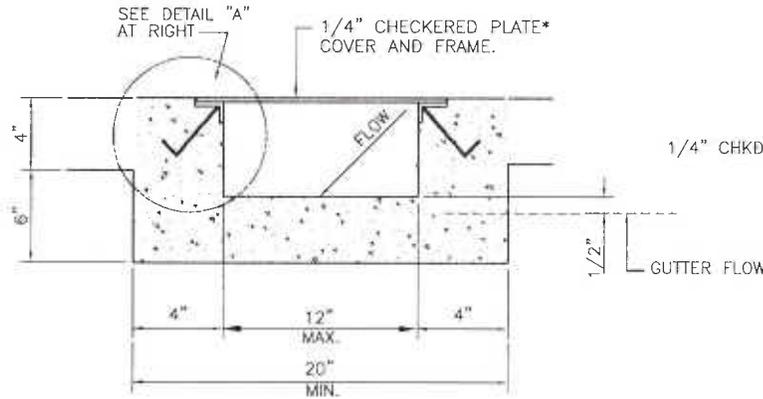
3" DIA. PIPE - TO BE USED FOR BUILDING DOWN-SPOUTS ONLY

3"x5" or 3"x6" RECTANGULAR TUBING

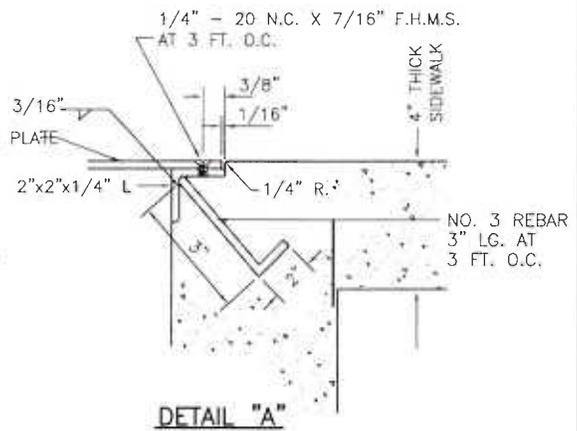


**GUTTER FLOW DETAIL**

**SIDEWALK DRAIN TUBE/PIPE**



**CHANNEL THROUGH WALK  
SIDEWALK TROUGH DRAIN**



**DETAIL "A"**

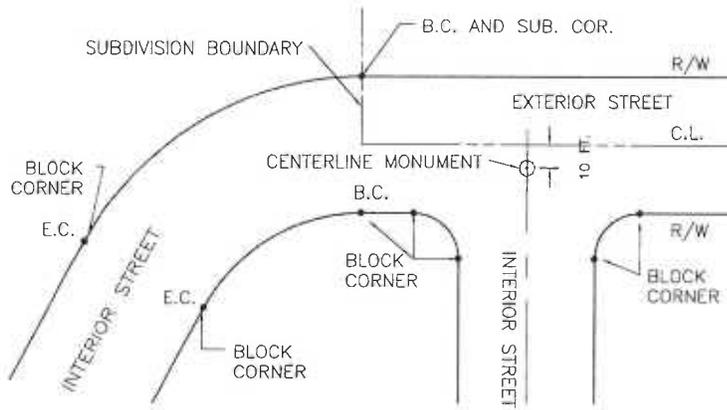
**NOTES:**

1. SIDEWALK DRAIN PIPE ONLY TO BE USED WITH THE APPROVAL OF THE CITY ENGINEER.
2. REMOVE AND REPLACE CONCRETE CURB AND GUTTER WITHIN LIMITS OF WORK WHERE CONCRETE CURB & GUTTER EXIST, PER ST-8 & ST-11 CONCRETE COLD JOINTS.
3. 3" PIPE SHALL BE GALVANIZED PIPE. RECTANGULAR TUBING SHALL BE STEEL. PVC NOT ALLOWED WITHIN CITY R/W.
4. MINIMUM WALL THICKNESS OF RECTANGULAR TUBING IS 3/16".
5. NO DRAIN SHALL BE PERMITTED IN DRIVE APPROACH AREAS.
6. SIDEWALK DRAINS, EXCEPT CHANNELS, SHALL BE ANGLED IN DIRECTION OF GUTTER FLOW AT 1:5 ANGLE.
7. ALL CONCRETE SHALL BE CLASS 'A' AND EXPOSED SURFACES SHALL BE FINISHED AS PER CURB SPECIFICATIONS.,
8. DRAIN SLOPES SHALL BE 0.010 MIN. AND 0.020 MAX.
9. FLOOR OF TROUGH SHALL BE GIVEN A STEEL TROWEL FINISH. ALL PARTS SHALL BE STRUCTURAL GRADE STEEL AND ALL EXPOSED METAL SHALL BE PAINTED OR DIPPED W/ASPHALTUM PAINT.

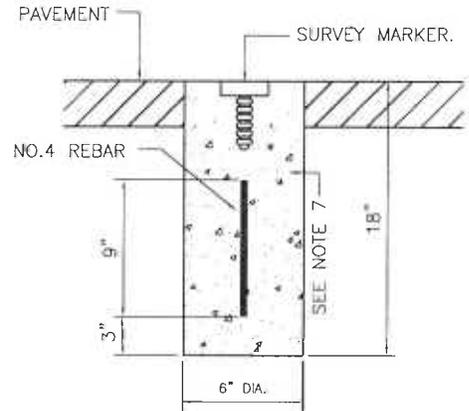
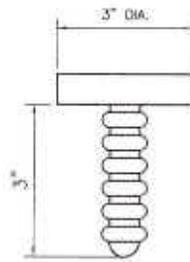
AREAS TO BE DRAINED FROM PRIVATE PROPERTY TO PUBLIC STREETS		
SURFACE AREA	TYPE OF SURFACE	DRAIN AREA REQUIRED
2 ACRES 200'x400'	PAVED	100 SQ. IN.
	GRASS	25 SQ. IN.
1.5 ACRES 200'x300'	PAVED	75 SQ. IN.
	GRASS	20 SQ. IN.
1 ACRE 200'x200'	PAVED	50 SQ. IN.
	GRASS	12 SQ. IN.
0.75 ACRE 150'x200'	PAVED	40 SQ. IN.
	GRASS	10 SQ. IN.
0.50 ACRE 100'x200'	PAVED	30 SQ. IN.
	GRASS	6 SQ. IN.
0.25 ACRE 100'x100'	PAVED	16 SQ. IN.
	GRASS	3 SQ. IN.
USE 1 ACRE = 200'x200' OR 100'x400'		
AREA 3" DIA. PIPE = 7.1 SQ. IN.(ROOF DRAIN)		
AREA 3"x5" RECT. TUBE = 12.3 SQ. IN.		
AREA 3"x6" RECT. TUBE = 14.9 SQ. IN.		
AREA 3"x12" CHANNEL = 36 SQ. IN.		
AREA 4"x14" CHANNEL = 56 SQ. IN.		

NOT TO SCALE

<p><b>SIDEWALK DRAINS</b></p>	<p>REVISIONS: SEPT. 2016</p>	<p>CITY OF REEDLEY</p>
	<p>DRAWN BY: kjp</p>	<p><b>ST-40</b></p>



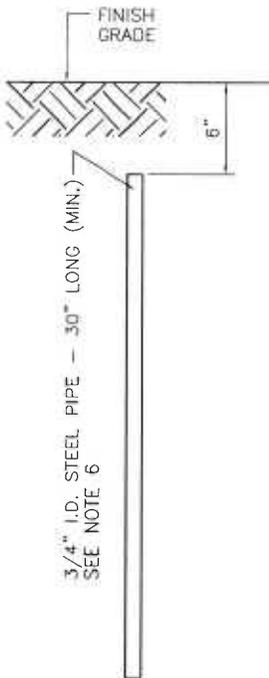
**TYPICAL LOCATIONS FOR CORNERS AND MONUMENTS**



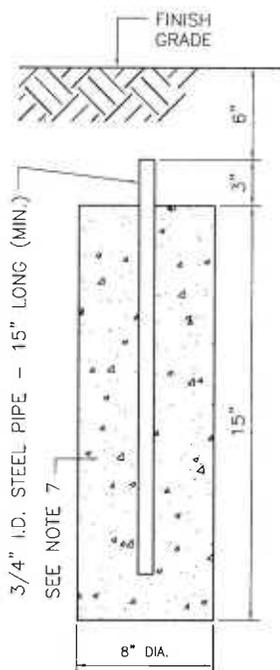
SERVCO NO. 2136 BRONZE SURVEY MARKER.

**DETAIL**

**CENTERLINE MONUMENT**



**LOT CORNER**



**SUBDIVISION AND BLOCK CORNER**

**NOTES:**

1. IN CONFORMANCE WITH SECTION 8772 OF THE "LAND SURVEYORS ACT", ALL CORNERS SHALL BE TAGGED WITH THE SURVEYOR'S NUMBER. EACH NUMBER SHALL BE PRECEDED BY THE LETTERS "PLS" OR "PE" RESPECTIVELY.
2. ALL SUBDIVISION BOUNDARY CORNERS, ANGLE POINTS, AND CURVE POINTS SHALL BE MONUMENTED WITH THE SUBDIVISION CORNER MONUMENT.
3. ALL BLOCK CORNERS, ANGLE POINTS AND CURVE POINTS INTERIOR TO THE TRACT SHALL BE MONUMENTED WITH THE BLOCK CORNER MONUMENT.
4. ALL LOT CORNERS NOT MARKED BY SUBDIVISION OR BLOCK CORNER MONUMENTS SHALL BE MONUMENTED WITH THE LOT CORNER MONUMENT.
5. ALL INTERSECTIONS OF INTERIOR STREET CENTERLINES W/ EXTERIOR OR BOUNDARY STREET CENTERLINES SHALL BE MONUMENTED WITH CENTERLINE MONUMENTS SET ON THE INTERIOR STREET CENTERLINE 10 FT. OFF THE EXTERIOR STREET CENTERLINE.
6. WITH PERMISSION OF THE CITY ENGINEER, PIPE FOR LOT CORNER MONUMENTS MAY BE SHORTENED TO 15" IN LENGTH IN AREAS WITH HARDPAN.
7. CONCRETE FOR MONUMENTS SHALL BE CLASS 'C' (2800 PSI) CONCRETE.
8. ADDITIONAL MONUMENTS MAY BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER.

NOT TO SCALE

**SURVEY MONUMENT  
DETAILS**

REVISIONS:  
SEPT. 2016

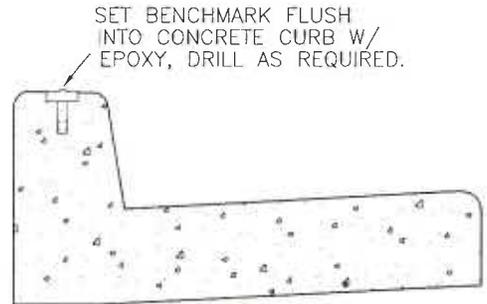
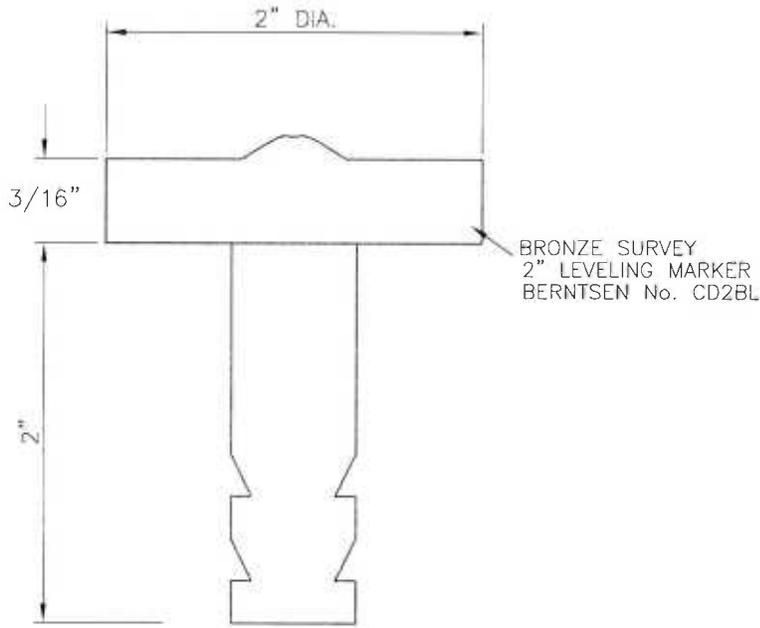
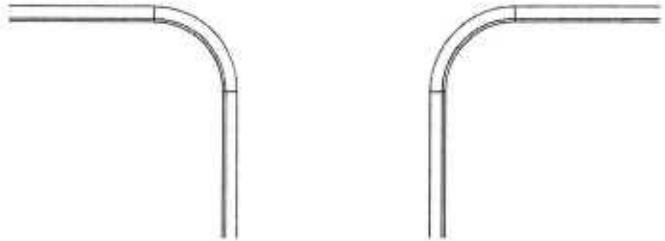
DRAWN BY: kjp

CITY OF REEDLEY

ST-41



ROAD INTERSECTION



STANDARD CURB & GUTTER



FULL SIZE

NOTES:

1. LOCATE BENCHMARKS AT THE CORNER OF INTERSECTIONS APPROVED BY THE CITY ENGINEER.
2. COMPLETE NOTES SHOWING LOCATIONS, ELEVATIONS AND CLOSURES SHALL BE FILED WITH THE CITY SURVEYOR.
3. ELEVATIONS SHALL BE BASED ON CITY OF REEDLEY DATUM, NAVD88.
4. BENCHMARK NUMBER SHALL BE STAMPED WITH DIES ON TOP.

NOT TO SCALE

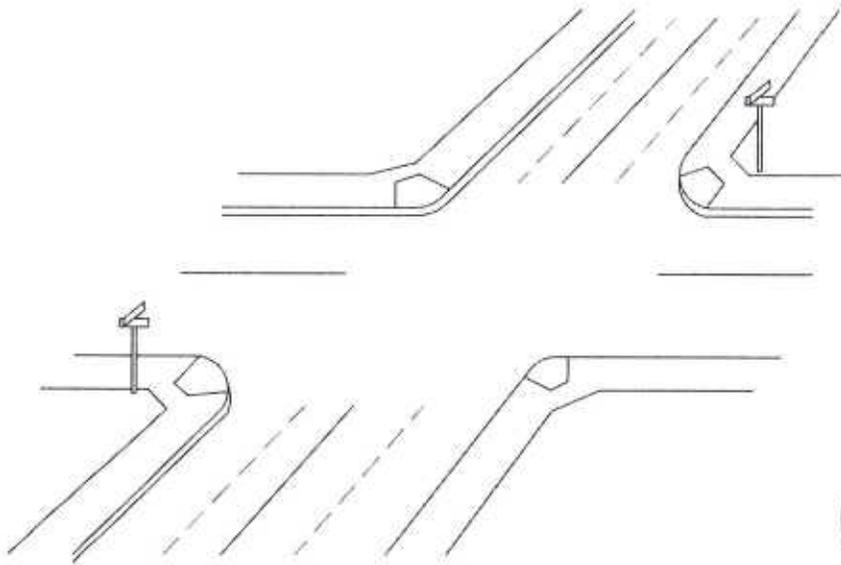
SURVEY MONUMENT  
DETAILS

REVISIONS:  
SEPT. 2016

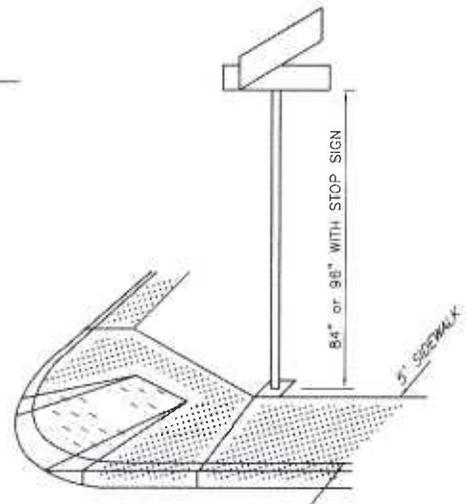
DRAWN BY: *kjp*

CITY OF REEDLEY

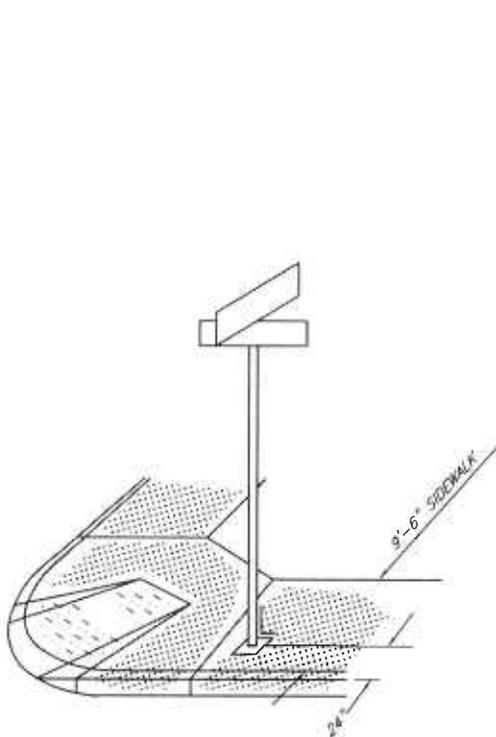
ST-42



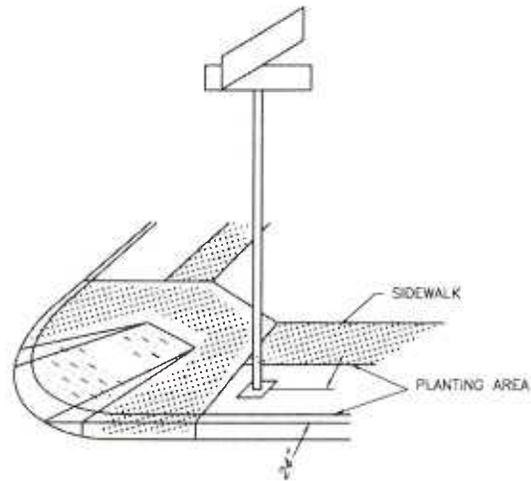
LOCATION AT INTERSECTION



LOCATION IN 5 FT. MONOLITHIC SIDEWALK



LOCATION IN FULL WIDTH SIDEWALK



LOCATION IN PLANTING STRIP

NOTES:

1. CORNER FOR INSTALLATION SHALL BE AS DESIGNATED BY THE CITY ENGINEER.
2. SAWCUT REQUIRED IF SIGN INSTALLED AFTER SIDEWALK IS POURED.
3. WHEN INSTALLED IN SIDEWALK, POLES WILL BE SET PRIOR TO SIDEWALK POUR.
4. SAME PIPE FOR STOP SIGN AND STREET NAME SIGN MAY BE UTILIZED WHERE APPROVED.

NOT TO SCALE

SEE STD. DWG. ST-44  
ST-45

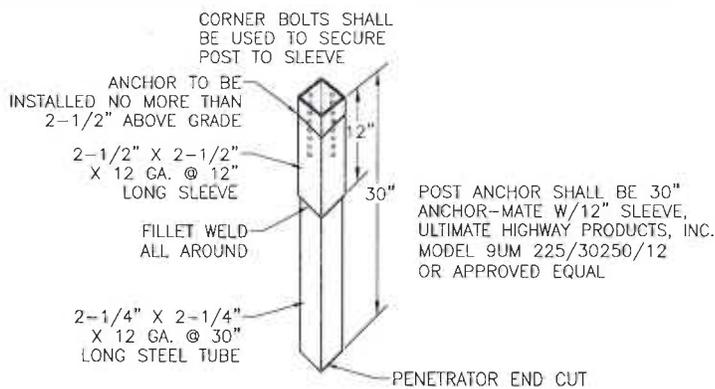
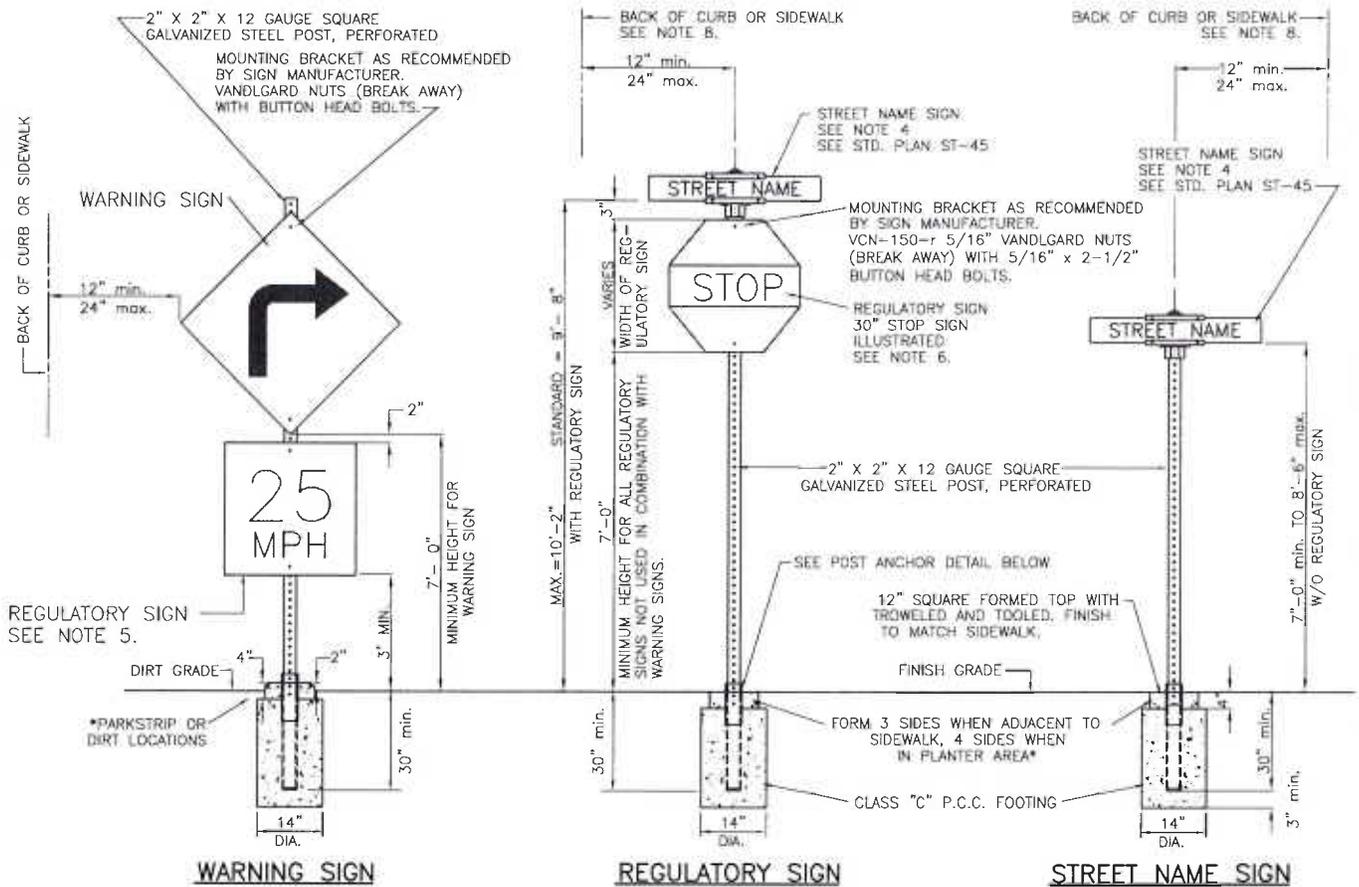
STREET SIGN LOCATION

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-43



**NOTES:**

1. ALL SIGNS, POST, HARDWARE, MOUNTING BRACKETS & INCIDENTALS SHALL BE SUPPLIED, ASSEMBLED AND INSTALLED COMPLETE AND IN ACCORDANCE WITH THIS STANDARD PLAN, THE STANDARD SPECIFICATIONS AND THE CALTRANS SPECIFICATIONS AND THE STATE OF CALIFORNIA, MUTCD, LATEST EDITION.
2. ALL SIGN LOCATION SHALL BE DETERMINED BY THE CITY ENGINEER. FORM & EDGE 12" X 12" CONCRETE APRON 4" THICK WHEN INSTALLED IN PARKSTRIP OR DIRT LOCATIONS.
3. REGULATORY AND WARNING SIGNS SHALL BE PROVIDED AND INSTALLED COMPLETE AND IN PLACE AS REQUIRED BY THE CITY ENGINEER.
4. STREET NAME SIGN MAY BE PLACED ON A REGULATORY SIGN POST ONLY WHERE APPROVED IN ADVANCE BY THE CITY ENGINEER.
5. REGULATORY SIGN MAY BE PLACED ON A WARNING SIGN POST ONLY WHERE APPROVED IN ADVANCE BY THE CITY ENGINEER.
6. A 36-INCH SIZE STOP SIGN MAY BE REQUIRED IN SPECIAL SITUATIONS AS DETERMINED BY THE CITY ENGINEER.
7. ALL STEEL POST AND MOUNTING BRACKETS AND HARDWARE SHALL BE GALVANIZED AS SPECIFIED IN THIS PLAN AND IN ACCORDANCE WITH SECTION 75-1.05 OF THE CALTRANS SPECIFICATIONS.
8. REFER TO THE CITY OF REEDLEY STANDARD PLAN ST-43.
9. ALL TRAFFIC SIGNS SHALL BE 0.08 INCH THICK ALUMINUM; FACE SHALL HAVE A 3M #4090 DG3 REFLECTIVE SHEETING WITH AN APPLIED 3M #1160 OR EQUAL GRAFFITI FILM.

NOT TO SCALE

<b>SIGN INSTALLATION</b>	REVISIONS: SEPT. 2016	<b>CITY OF REEDLEY</b>
	DRAWN BY: kjp	<b>ST-44</b>

BACKGROUND COLOR:  
ENGINEER GRADE  
REFLECTIVE GREEN

LETTER COLOR:  
REFLECTIVE WHITE

SUFFIX AND BLOCK NUMBER  
SHALL BE 2" U.C.



6" WIDE x VARIABLE LENGTH  
(24" MINIMUM), 0.080" GAUGE  
ALUMINUM FLAT BLADE  
DOUBLE FACED, ENGINEER  
GRADE REFLECTIVE SHEETING.



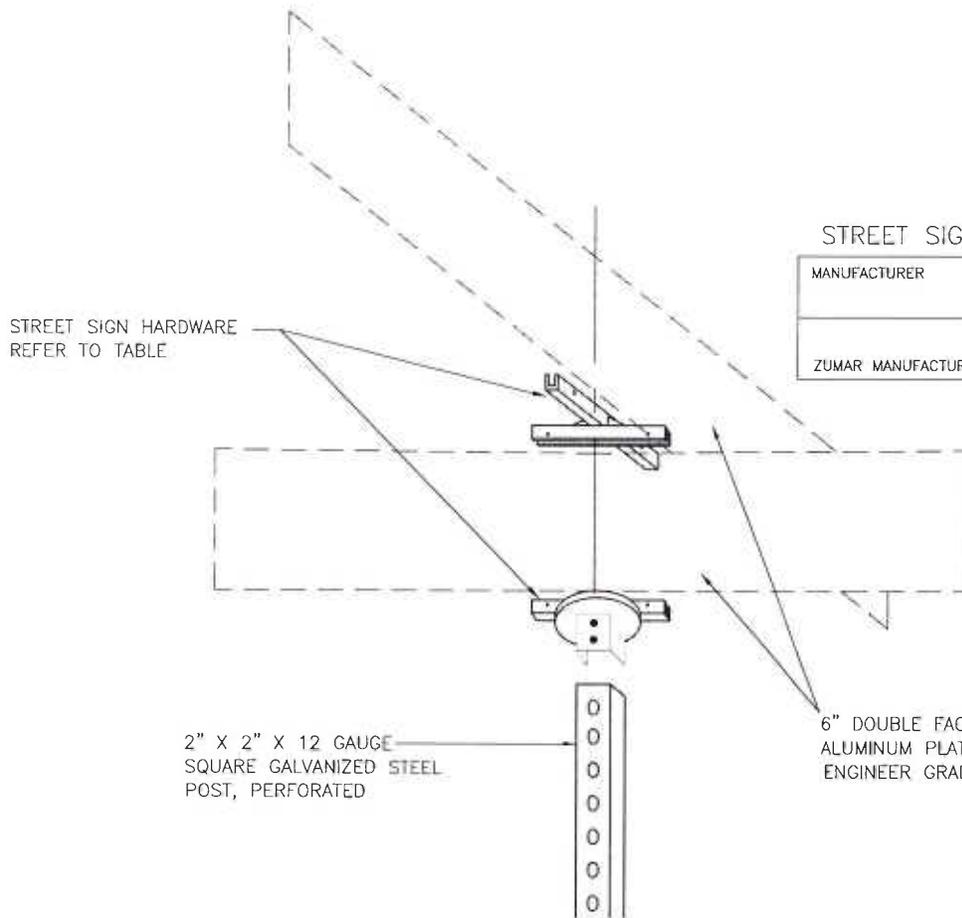
SIZES:  
STD. LENGTHS - 24", 30" OR 36"

**LEGEND FOR  
NAME PLATE**

**NAME PLATE**

NOTES FOR 6" STREET NAME SIGNS:

1. STREET NAMES SHALL BE 4 INCH UPPER CASE, FOLLOWED BY 3 INCH LOWERCASE FHWA SERIES C2000EX. ALL OTHER LETTERING SHALL BE 2 INCH FHWA SERIES D2000EX.
2. STREET NAME AND ADDRESS 1 INCH SPACE FROM EACH END. STREET NAME 1 INCH SPACE FROM TOP AND BOTTOM.
3. STREET ADDRESS AND STREET SUFFIX 3/4" SPACE TOP AND BOTTOM.
4. LETTERING SHALL BE WHITE REFLECTIVE (3M 4090) BACKGROUND SHALL BE ELECTRO CUTTABLE (3M 1177C) WITH 1/2 INCH CORNER ROUNDING



STREET SIGN HARDWARE TABLE

MANUFACTURER	BLADE HARDWARE STYLE	
	BLADE LENGTH	
	24"	30", 36" or 42"
ZUMAR MANUFACTURING	808F90X	812F90X

STREET SIGN HARDWARE  
REFER TO TABLE

2" X 2" X 12 GAUGE  
SQUARE GALVANIZED STEEL  
POST, PERFORATED

6" DOUBLE FACED FLAT BLADE STREET NAME SIGN  
ALUMINUM PLATE THICKNESS TO BE 0.080".  
ENGINEER GRADE REFLECTIVE SHEETING

**DOUBLE FACED STREET NAME SIGN HOLDER ASSEMBLY**

NOTE:

1. ALL STEEL BRACKETS AND HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 75-1.05 OF THE CALTRANS SPECIFICATIONS.

NOT TO SCALE

STREET NAME SIGN

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-45

BACKGROUND COLOR:  
ENGINEER GRADE  
REFLECTIVE GREEN

LETTER COLOR:  
REFLECTIVE WHITE

SUFFIX AND BLOCK NUMBER  
SHALL BE 3" U.C.

9" WIDE x VARIABLE LENGTH  
(24" MINIMUM), 0.080" GAUGE  
ALUMINUM FLAT BLADE  
DOUBLE FACED, ENGINEER  
GRADE REFLECTIVE SHEETING.



SIZES:  
STD. LENGTHS - 24", 30", 36" OR 42"

### LEGEND FOR NAME PLATE

### NAME PLATE

NOTES FOR 9" STREET NAME SIGNS:

1. STREET NAMES SHALL BE 6 INCH UPPER CASE, FOLLOWED BY 4.5 INCH LOWERCASE FHWA SERIES C2000EX. ALL OTHER LETTERING SHALL BE 3 INCH FHWA SERIES D2000EX.
2. STREET NAME AND ADDRESS 1 INCH SPACE FROM EACH END. STREET NAME 1.5 INCH SPACE TOP AND BOTTOM.
3. STREET ADDRESS AND STREET SUFFIX 1" SPACE TOP AND BOTTOM.
4. LETTERING SHALL BE WHITE REFLECTIVE (3M 4090) BACKGROUND SHALL BE ELECTRO CUTTABLE (3M 1177C) WITH 1/2 INCH CORNER ROUNDING

BACKGROUND COLOR:  
ENGINEER GRADE  
REFLECTIVE GREEN

LETTER COLOR:  
REFLECTIVE WHITE

SUFFIX AND BLOCK NUMBER  
SHALL BE 4" U.C.

12" WIDE x VARIABLE LENGTH  
(24" MINIMUM), 0.080" GAUGE  
ALUMINUM FLAT BLADE  
DOUBLE FACED, ENGINEER  
GRADE REFLECTIVE SHEETING.



SIZES:  
STD. LENGTHS - 24", 30", 36", 42" OR 48"

### LEGEND FOR NAME PLATE

### NAME PLATE

NOTES FOR 12" STREET NAME SIGNS:

1. STREET NAMES SHALL BE 8 INCH UPPER CASE, FOLLOWED BY 6 INCH LOWERCASE FHWA SERIES C2000EX. ALL OTHER LETTERING SHALL BE 4 INCH FHWA SERIES D2000EX.
2. STREET NAME AND ADDRESS 1 INCH SPACE FROM INSIDE BORDER EDGE. STREET NAME VERTICALLY CENTERED.
3. STREET ADDRESS AND STREET SUFFIX OFFSET 1-3/4 INCH TOP AND BOTTOM.
4. LETTERING SHALL BE WHITE REFLECTIVE (3M 4090) BACKGROUND SHALL BE ELECTRO CUTTABLE (3M 1177C) WITH 3/4 INCH CORNER ROUNDING

BACKGROUND COLOR:  
ENGINEER GRADE  
REFLECTIVE GREEN

LETTER COLOR:  
REFLECTIVE WHITE

SUFFIX AND BLOCK NUMBER  
SHALL BE 6" U.C.

21" WIDE x VARIABLE LENGTH  
(30" MINIMUM), 0.080" GAUGE  
ALUMINUM FLAT BLADE  
DOUBLE FACED, ENGINEER  
GRADE REFLECTIVE SHEETING.



SIZES:  
STD. LENGTHS - 30", 36", 42" OR 48"

### LEGEND FOR NAME PLATE

### NAME PLATE

NOTES FOR 21" STREET NAME SIGNS:

1. STREET NAMES SHALL BE 12 INCH UPPER CASE, FOLLOWED BY 9 INCH LOWERCASE FHWA SERIES C2000EX. ALL OTHER LETTERING SHALL BE 6 INCH FHWA SERIES D2000EX.
2. STREET NAME AND ADDRESS 2 INCH SPACE FROM INSIDE BORDER EDGE. STREET NAME VERTICALLY CENTERED.
3. STREET ADDRESS AND STREET SUFFIX OFFSET 1 INCH TOP AND BOTTOM.
4. LETTERING SHALL BE WHITE REFLECTIVE (3M 4090) BACKGROUND SHALL BE ELECTRO CUTTABLE (3M 1177C) WITH 1 INCH CORNER ROUNDING

NOT TO SCALE

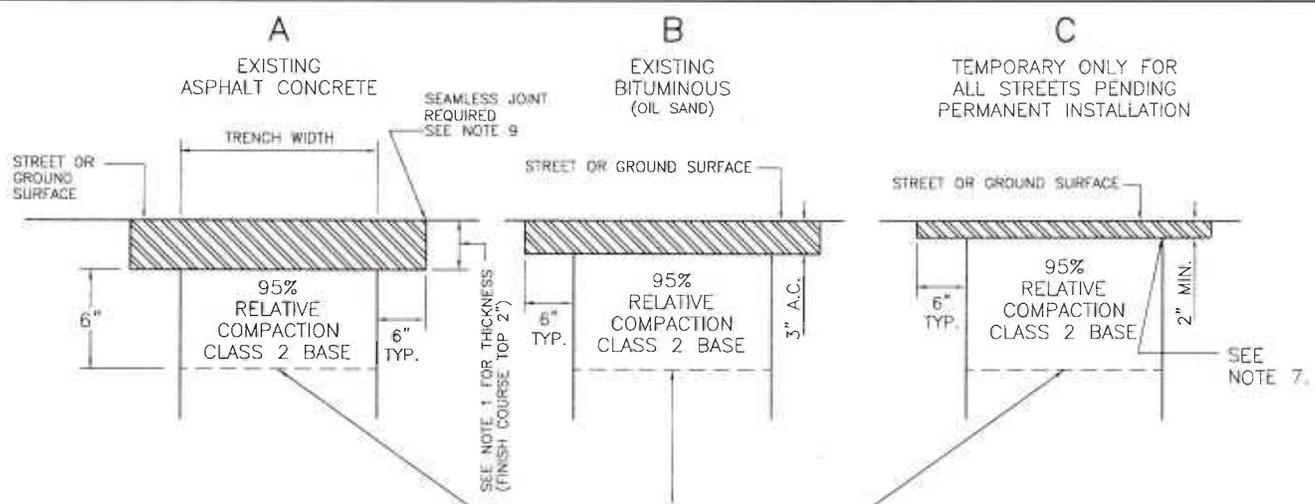
STREET NAME SIGNS  
9", 12" & 21"

REVISIONS:  
SEPT. 2016

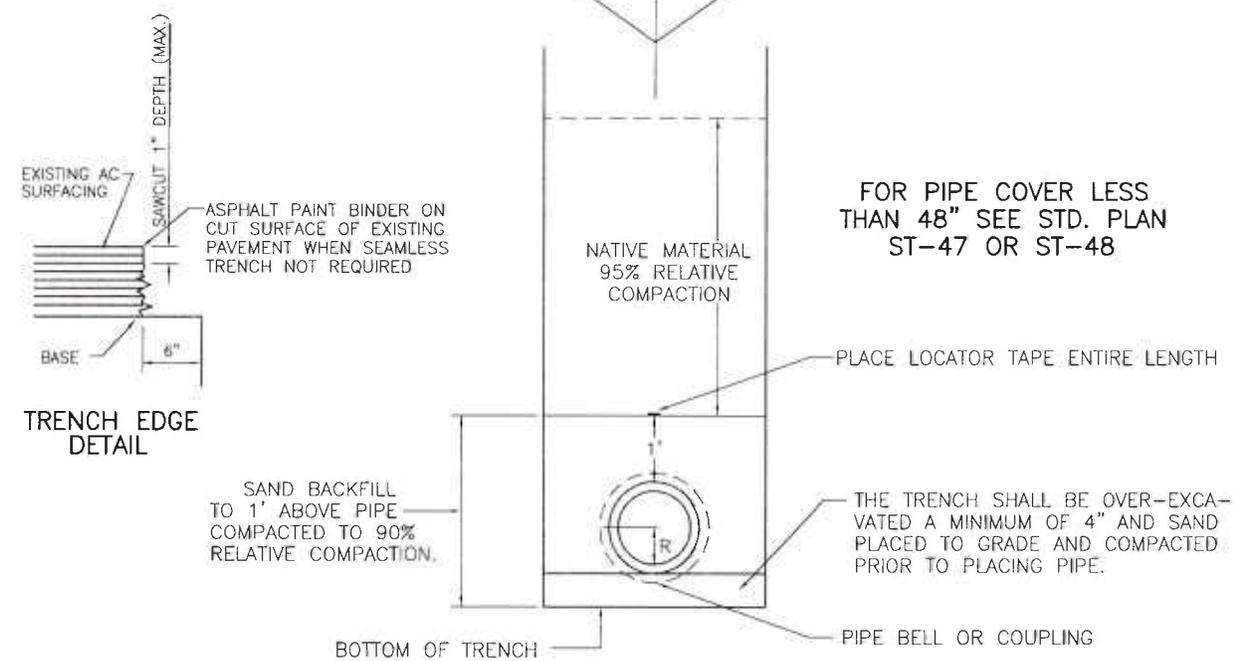
DRAWN BY: kjp

CITY OF REEDLEY

ST-45A



TRENCH SURFACING - SEE ABOVE SECTIONS 'A', 'B', 'C'



FOR PIPE COVER LESS THAN 48" SEE STD. PLAN ST-47 OR ST-48

**NOTES:**

1. AC SHALL BE 7" THICK FOR MAJOR ARTERIALS, ARTERIALS AND COLLECTORS. AC SHALL BE 5" THICK FOR LOCAL STREETS.
2. TWO INCH (2") MINIMUM THICKNESS OF TEMPORARY RESURFACING AS SHOWN ON SECTION "C", SHALL BE INSTALLED IMMEDIATELY ON BACKFILLED TRENCHES IN ALL STREETS.
3. NO TRAFFIC SHALL BE ALLOWED TO CROSS OVER BACKFILLED TRENCHES IN THE ROADWAY PRIOR TO PLACEMENT OF TEMPORARY ASPHALT SURFACING AS SHOWN IN SECTION "C".
4. CALIFORNIA TEST METHOD NO. 216 SHALL BE USED TO DETERMINE ALL PERCENTAGES OF RELATIVE COMPACTION.
5. AC = ASPHALT CONCRETE
6. THE PAVEMENT SECTIONS SHOWN ABOVE ARE MINIMUM ONLY. IF THE EXISTING STRUCTURAL SECTION IS GREATER, IT SHALL BE MATCHED UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
7. CUT BACK OR COLD MIX TO BE REMOVED PRIOR TO FINAL PAVING. REFER TO SEC. 12-6F, SEC. 15-3 OF THE CITY OF REEDLEY STANDARD SPECIFICATIONS.
8. A TACK COAT SHALL BE APPLIED TO THE ASPHALT CONCRETE VERTICAL EDGE OF TRENCH WALL PRIOR TO PLACEMENT OF FINAL ASPHALT SURFACING.
9. ALL CUTS IN EXISTING PAVEMENT THAT IS LESS THAN 8 YEARS OLD OR AS DIRECTED BY THE CITY ENGINEER SHALL BE REQUIRED TO HAVE SEAMLESS JOINTS WITH THE EXISTING PAVEMENT BY USING A HEATER-REMIX PROCESS.
10. MANHOLE & WATER VALVE RAISING ASSOCIATED WITH NEW STREET CONSTRUCTION IS NOT REQUIRED TO FOLLOW NOTE No. 9.
11. STREET CUTS SHALL BE MADE PARALLEL OR AT RIGHT ANGLES TO THE CENTERLINE OF THE STREET.
12. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE CURRENT EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS".

NOT TO SCALE

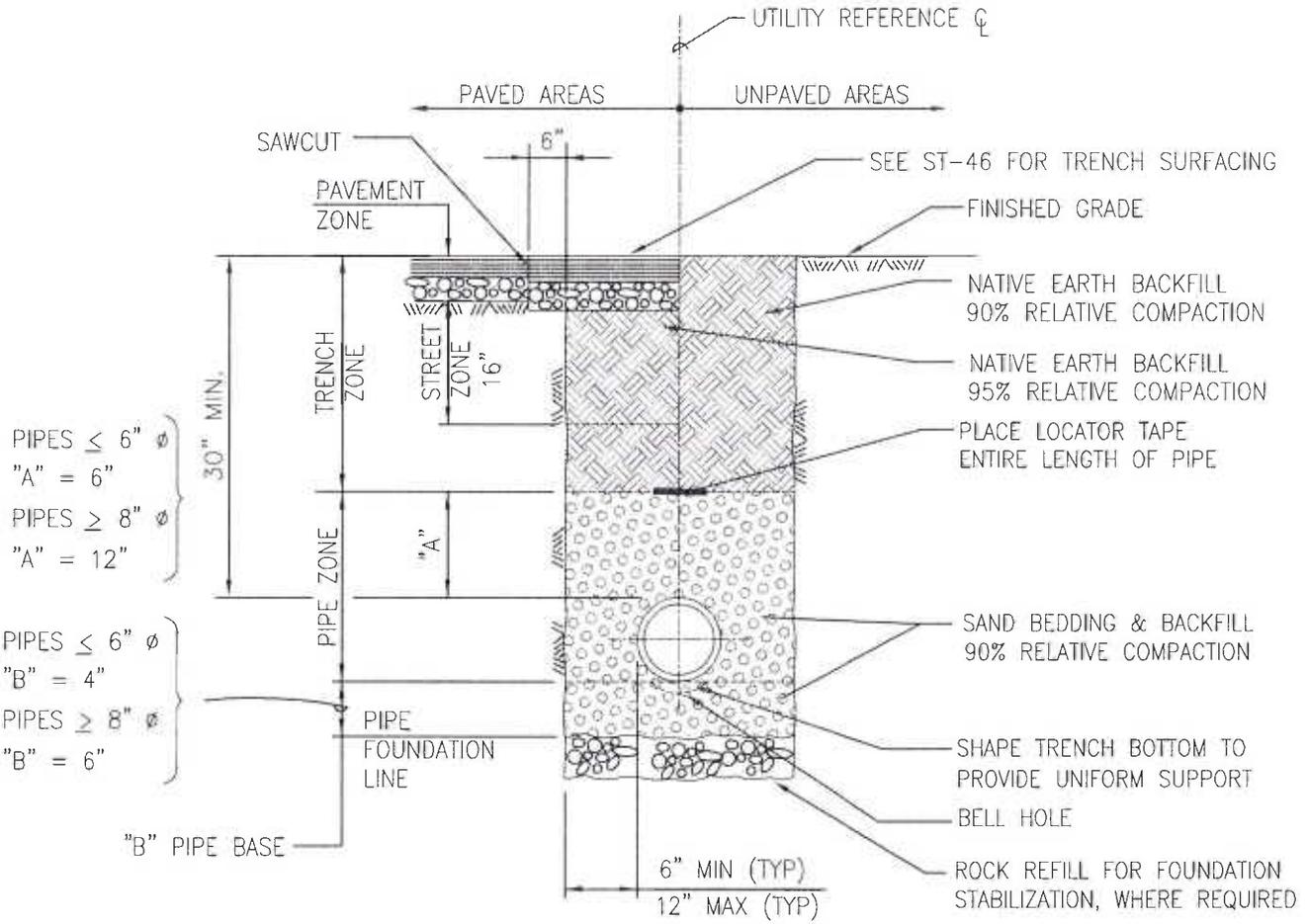
TRENCH BACKFILL AND SURFACE REPLACEMENT

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SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-46



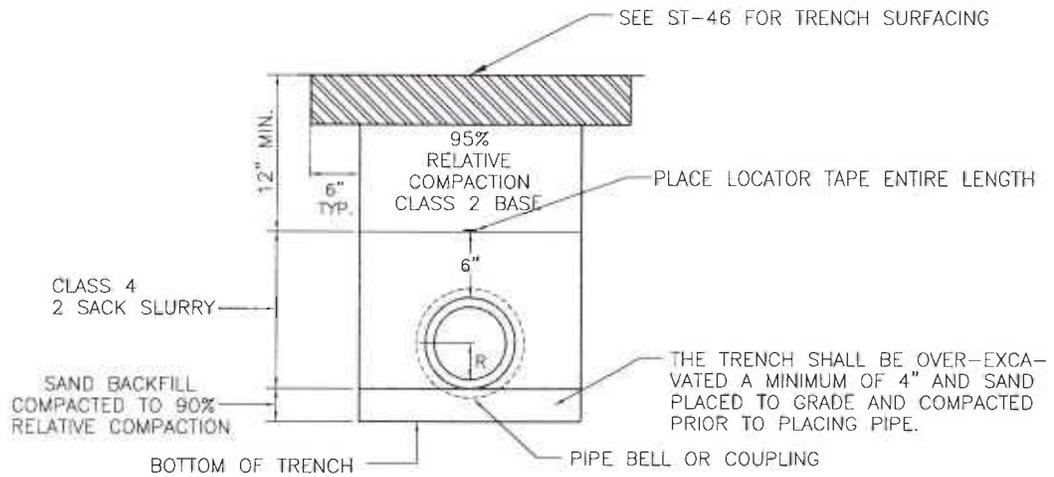
**NOTES**

1. TRENCH WALL SHOWN VERTICAL FOR CLARITY, EXCAVATE PER OSHA REQUIREMENTS.
2. USE THE SAME DETAIL FOR SERVICE LATERALS. REDUCE THICKNESS OF STREET ZONE AS REQUIRED TO HOLD OTHER DIMENSIONS AS SHOWN.

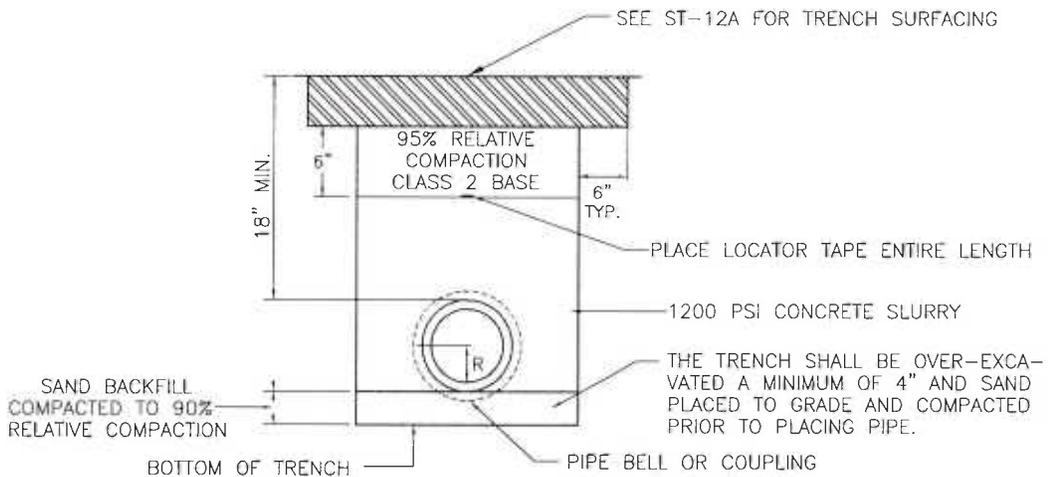
TRENCH DETAIL

NOT TO SCALE

<p>TRENCH DETAIL FOR COVER LESS THAN 48"</p>	<p>REVISIONS: SEPT. 2016</p>	<p>CITY OF REEDLEY</p>
	<p>DRAWN BY: kjp</p>	<p>ST-47</p>



OPTION 1



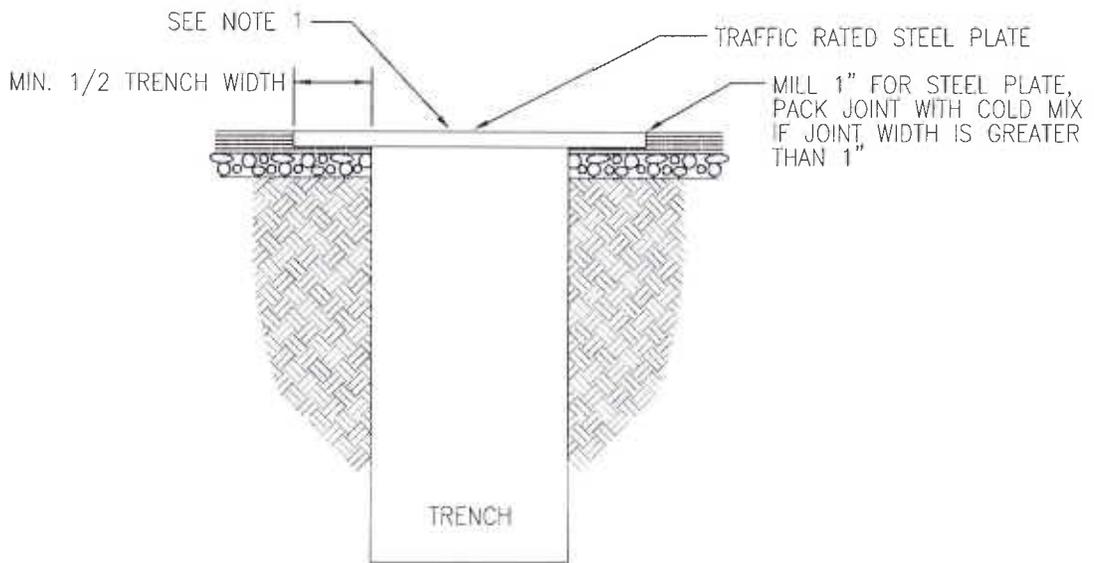
OPTION 2

NOTES:

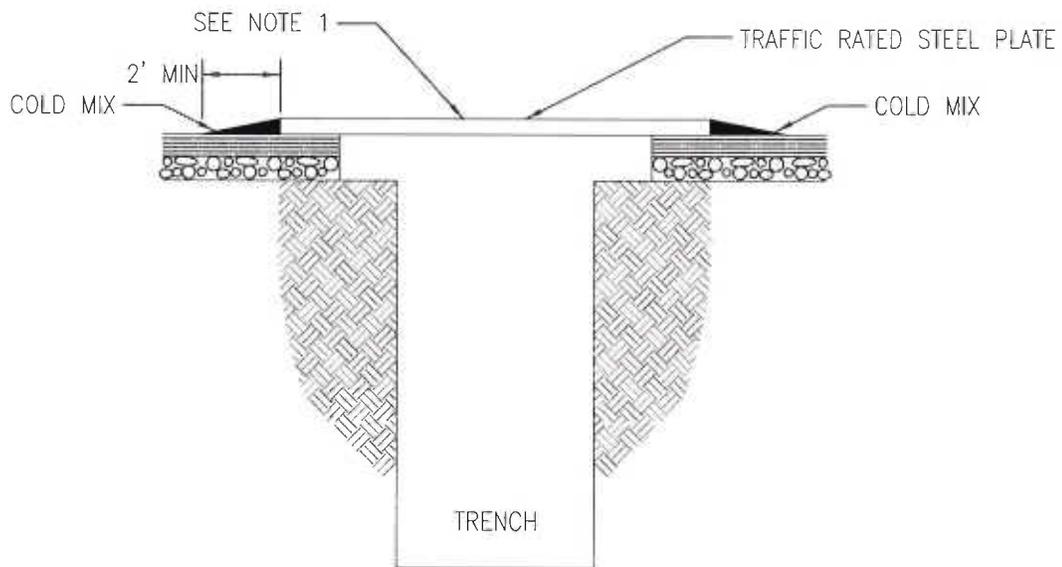
1. PIPE CONCRETE BACKFILL SHALL BE REQUIRED FOR ALL PIPE INSTALLED WITH LESS THAN 30" OF COVER OR AS DIRECTED BY THE CITY ENGINEER.
2. ALL CONCRETE BACKFILL SHALL BE 1200 PSI CONCRETE.
3. CONCRETE BACKFILL SHALL BE PLACED IN THE TRENCH AGAINST UNDISTURBED SOIL AND SHALL BE PLACED IN A MANNER THAT WILL PREVENT FLOATING OR SHIFTING OF THE PIPE.
4. FOREIGN MATERIAL WHICH FALLS INTO THE TRENCH DURING PLACEMENT OF THE CONCRETE SHALL BE IMMEDIATELY REMOVED.
5. NO MATERIAL SHALL BE PLACED ON TOP OF THE CONCRETE BACKFILL UNTIL 8 HOURS AFTER PLACING THE CONCRETE BACKFILL.

NOT TO SCALE

<p>TRENCH DETAIL FOR COVER LESS THAN 30"</p>	<p>REVISIONS: SEPT. 2016</p>	<p>CITY OF REEDLEY</p>
	<p>DRAWN BY: kjp</p>	<p>ST-48</p>



TYPE 'A' PLATING  
 CITY POSTED SPEEDS OF  
 GREATER THAN 25 MPH  
 OR BUS & TRUCK ROUTE



TYPE 'B' PLATING  
 CITY POSTED SPEEDS OF  
 25 MPH AND UNDER

NOTES

1. THE CONTRACTOR SHALL PROVIDE ADEQUATE OVERLAP OF PLATE ON ASPHALT TO ASSURE NO SLIPPAGE OF PLATE AND NO COLLAPSING OF TRENCH.
2. "POSTED SPEED" DOES NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING.

NOT TO SCALE

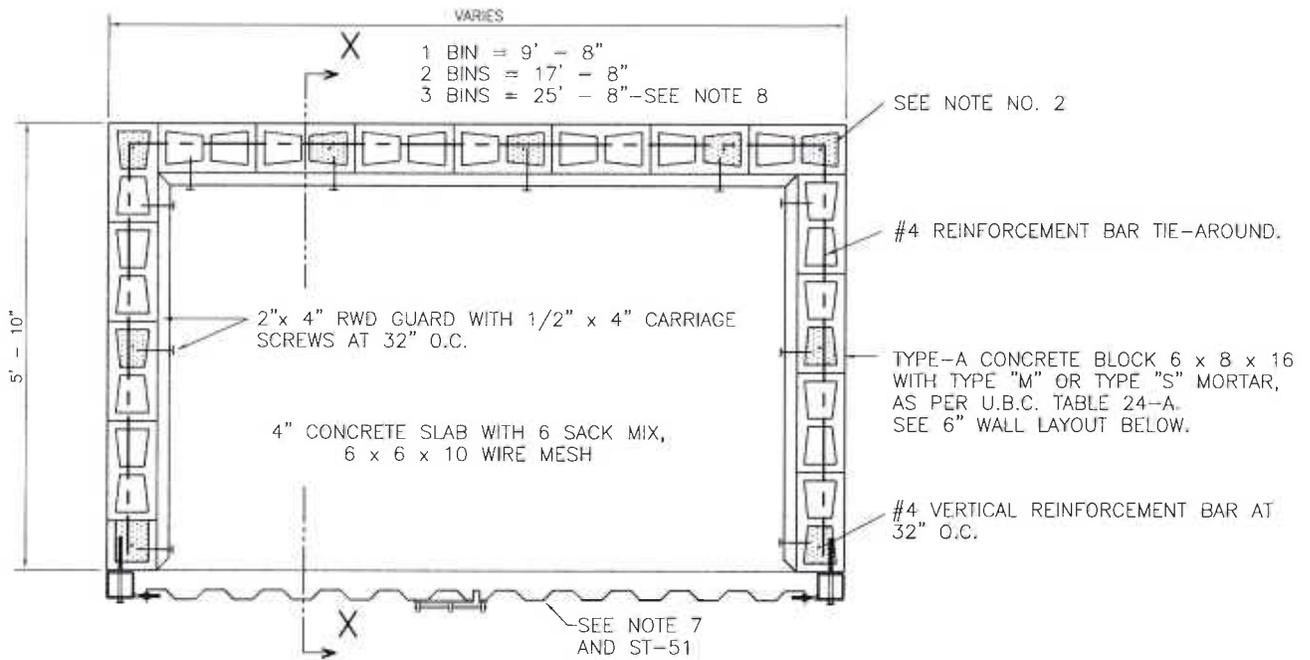
TRENCH PLATE DETAILS

REVISIONS:  
 SEPT. 2016

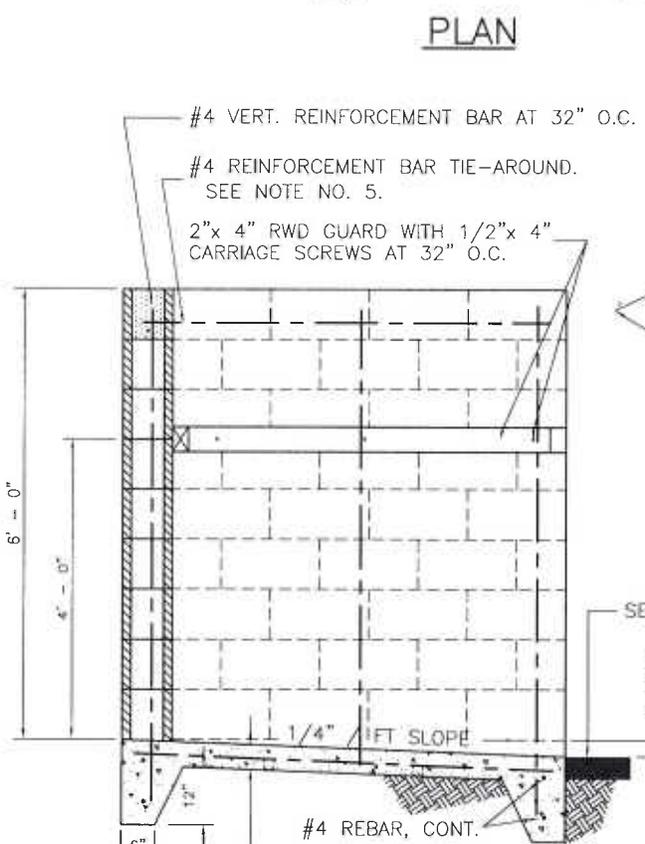
DRAWN BY: kjp

CITY OF REEDLEY

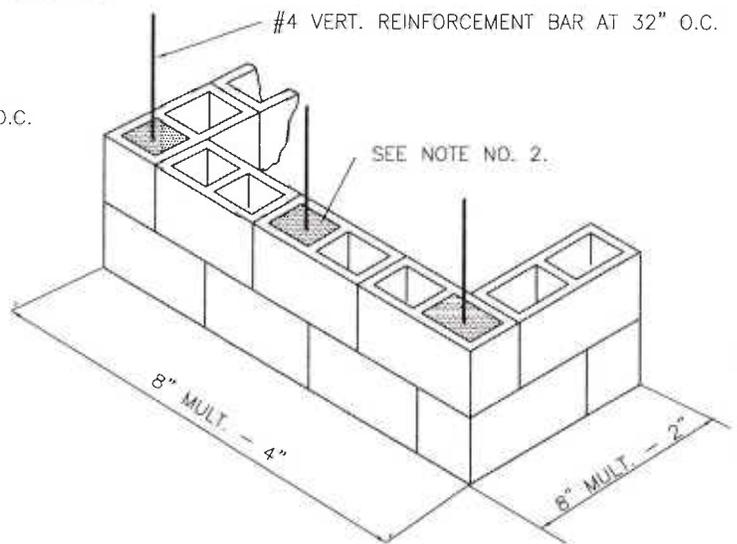
ST-49



PLAN



SECTION X-X



6" WALL LAYOUT

NOTES:

1. AT TIME OF LAYING, ALL MASONRY UNITS SHALL BE FREE OF EXCESSIVE DUST AND DIRT.
2. ALL CELLS WITH REINFORCEMENT SHALL BE FILLED WITH GROUT.
3. ALL REINFORCEMENT SHALL BE PLACED PRIOR TO GROUTING.
4. ALL CONSTRUCTION SHALL CONFORM TO U.B.C. SECTION 2415.
5. TOP LAYER OF CONCRETE BLOCK FULLBEDDED WITH MORTAR.
6. CONCRETE SURFACING ON APPROACH TO OPEN SIDE AS A MINIMUM. PLACE TO TOP OF SLAB. SEE ST-53.
7. ENCLOSURE DOORS SHALL BE INSTALLED AS REQUIRED: RESIDENTIAL OR APTS. - STEEL DOORS  
COMMERCIAL - CHAIN LINK W/ WOOD SLATS IS ALLOWABLE
8. 3 BIN ENCLOSURE REQUIRES AN ADDITIONAL GATE.

NOT TO SCALE

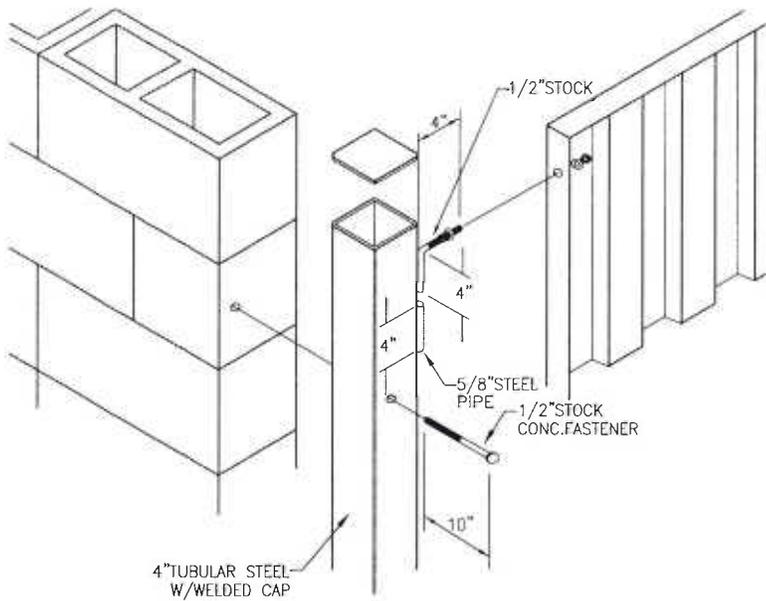
TRASH BIN ENCLOSURE

REVISIONS:  
 SEPT. 2016

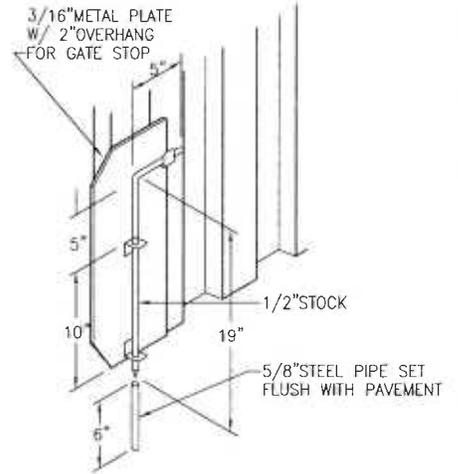
DRAWN BY: kjp

CITY OF REEDLEY

ST-50



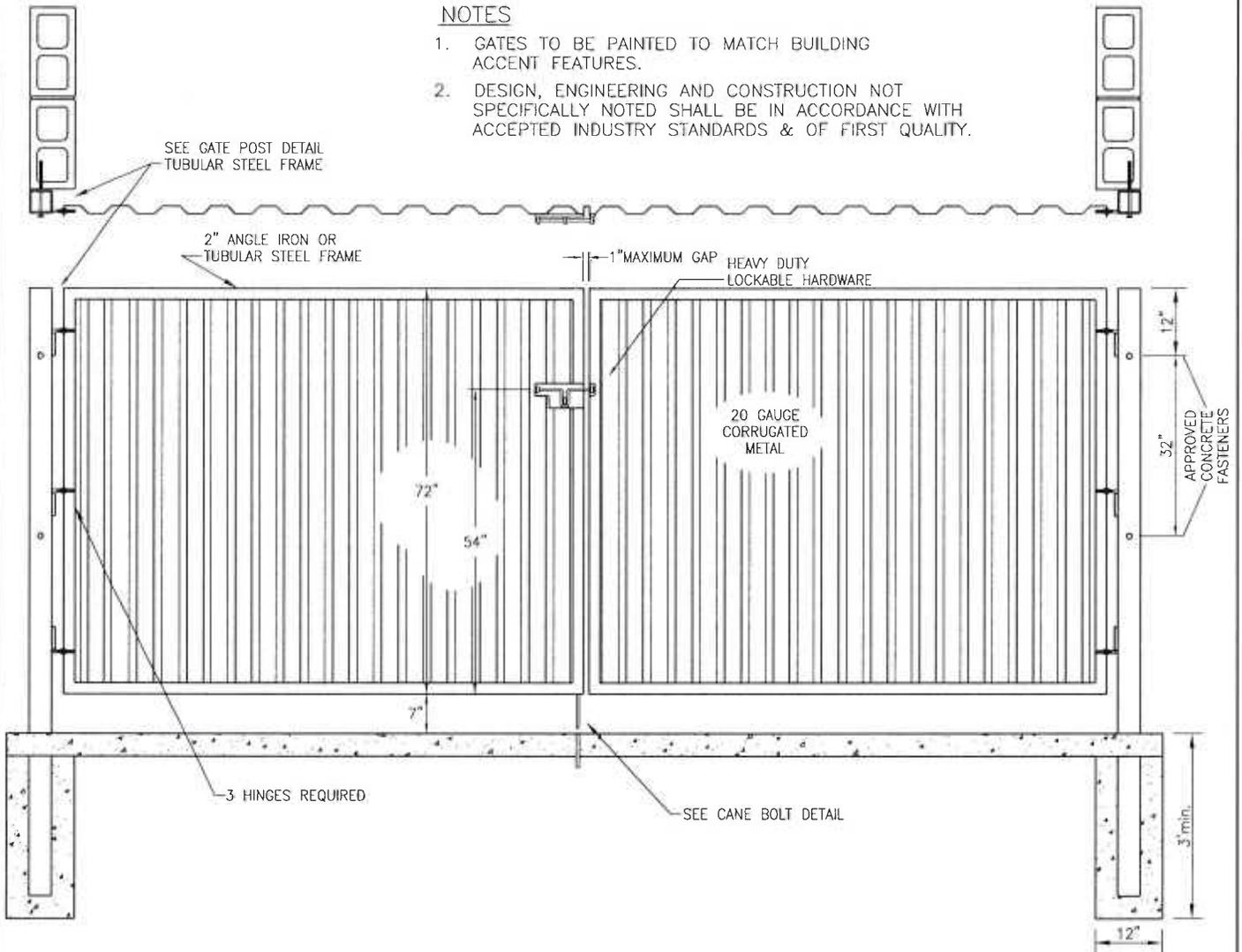
GATE POST DETAIL



CANE BOLT DETAIL

NOTES

1. GATES TO BE PAINTED TO MATCH BUILDING ACCENT FEATURES.
2. DESIGN, ENGINEERING AND CONSTRUCTION NOT SPECIFICALLY NOTED SHALL BE IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS & OF FIRST QUALITY.



NOT TO SCALE

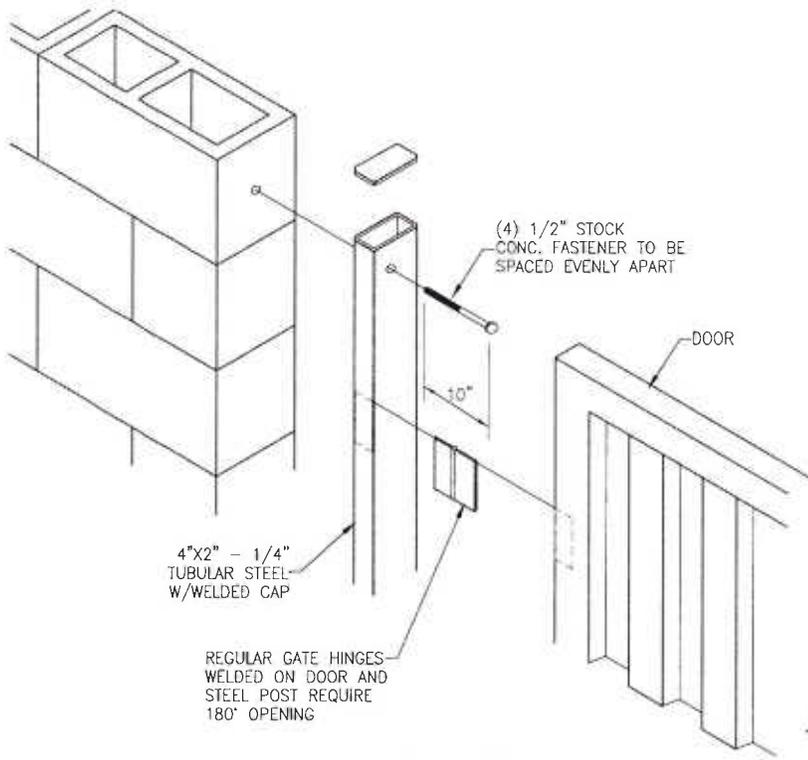
TRASH BIN ENCLOSURE  
GATE DETAILS

REVISIONS:  
SEPT. 2016

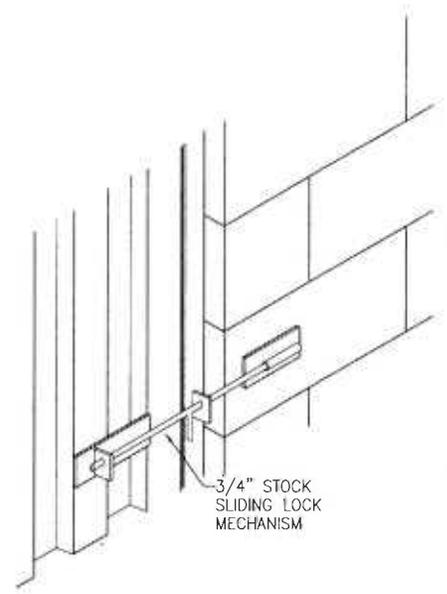
DRAWN BY: kjp

CITY OF REEDLEY

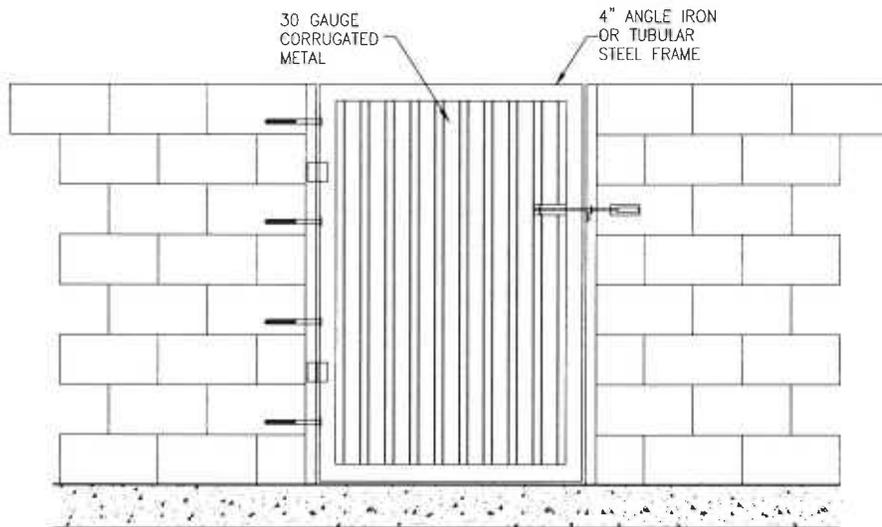
ST-51



DOOR POST DETAIL



LOCKABLE HARDWARE DETAIL



NOT TO SCALE

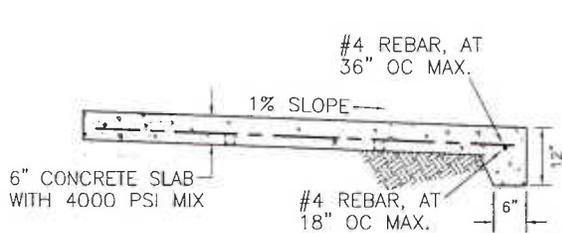
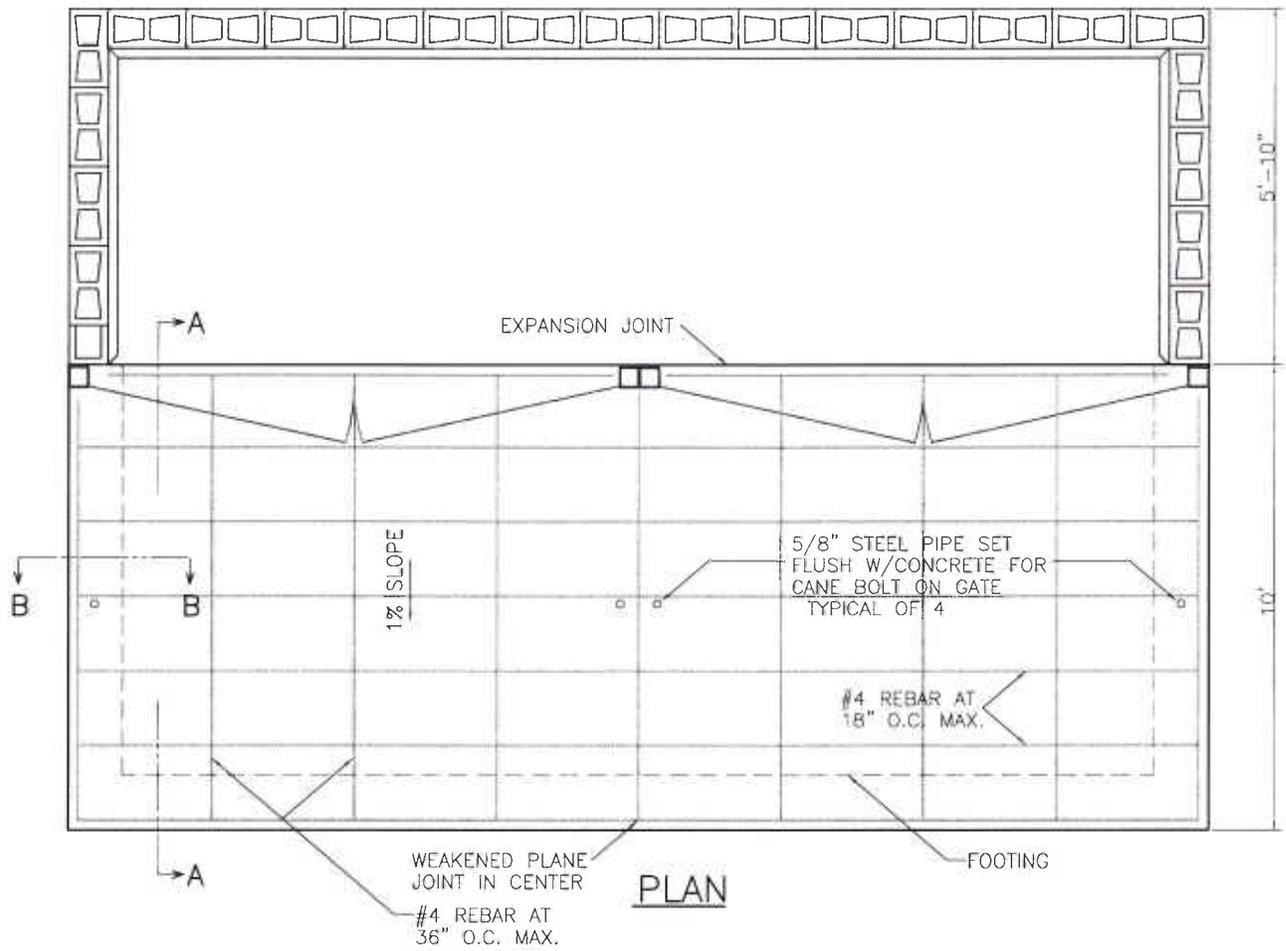
TRASH BIN ENCLOSURE  
DOOR DETAILS

REVISIONS:  
SEPT. 2016

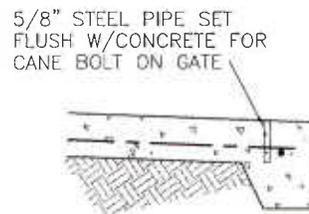
DRAWN BY: kjp

CITY OF REEDLEY

ST-52



SECTION A-A



SECTION B-B

NOTES:

1. ALL CONCRETE SHALL BE CLASS A, 6 SACK.
2. REBAR SHALL BE DEFORMED STEEL BARS AND SHALL BE GRADE 40 MIN. REBAR SHALL BE FREE OF RUST OR DIRT AND SHALL BE THOROUGHLY CLEANED BEFORE PLACEMENT.
3. REBAR SHALL HAVE A MINIMUM OF 2" OF CLEAR COVERAGE.
4. ALL TRASH BIN ENCLOSURES SHALL HAVE A CONCRETE APRON. ANY EXCEPTIONS REQUIRE APPROVAL BY CITY ENGINEER.
5. CONCRETE PAD SHALL BE PLACED ON MOIST AND COMPACTED BASE MATERIALS. 95% R.C.
6. STEEL PIPE LOCATION IN CONCRETE PAD SHALL BE DETERMINED BY CANE BOLT LOCATION ON GATE. SEE TRASH BIN ENCLOSURE GATE DETAILS

NOT TO SCALE

TRASH BIN ENCLOSURE  
CONCRETE APRON DETAILS

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-53

NOT TO SCALE

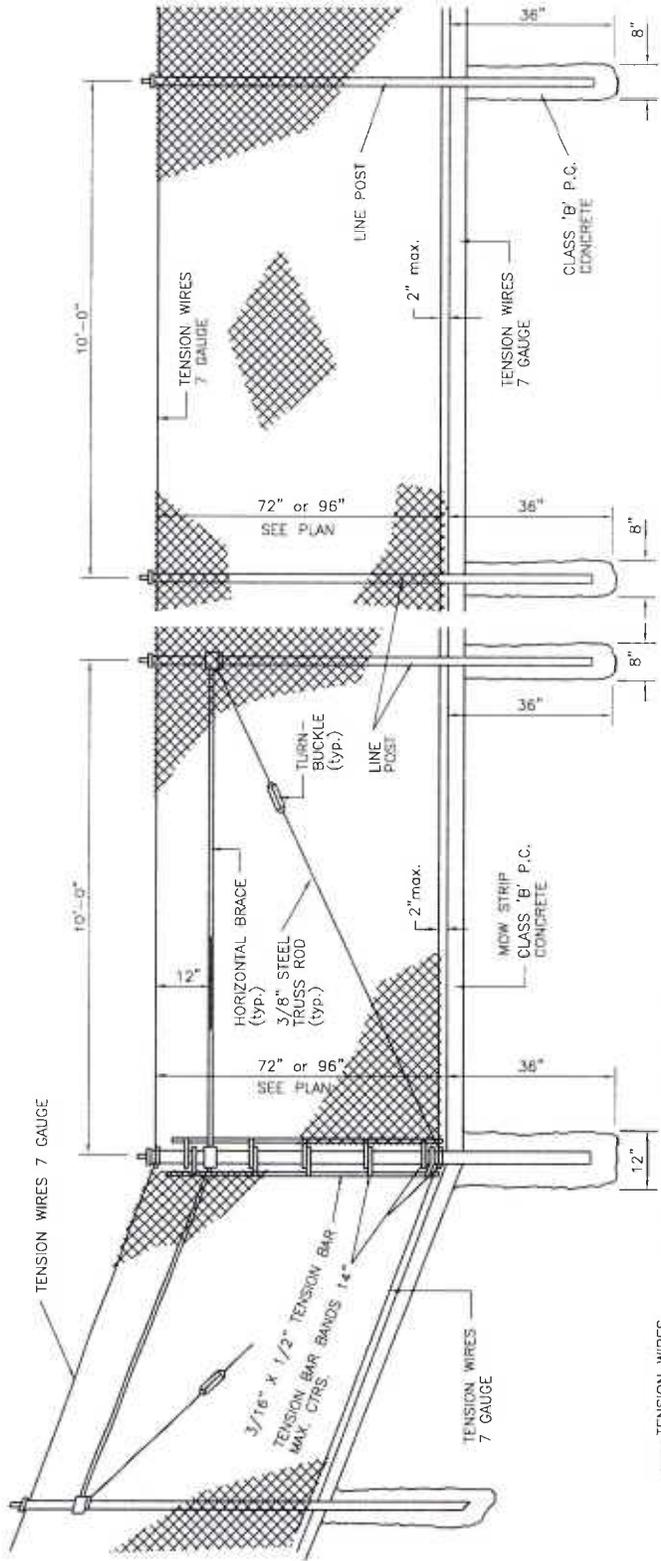
# CHAIN LINK FENCE

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-54



## CORNER POST

## LINE POST

TYPE CL-6 = 72" FABRIC - 11 GAUGE  
TYPE CL-8 = 96" FABRIC - 9 GAUGE

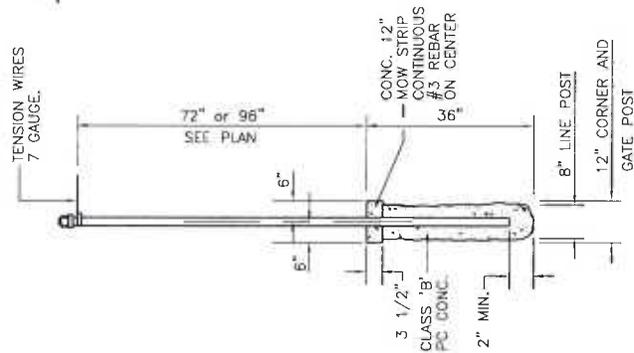
### TYPICAL MEMBER DIMENSIONS

FENCE HEIGHT	LINE POSTS			END, LATCH and CORNER POST			BRACES			
	ROUND (I.D.)	H	ROLL FORMED	ROUND (I.D.)	ROLL FORMED	ROLL FORMED	ROUND (I.D.)	H	ROLL FORMED	
6 FT. & LESS	1 1/2"	1 7/8"X1 5/8"	1 3/4"X1 3/4"	2"	3 1/2"X3 1/2"	2"X1 3/4"	1 1/4"	1 1/2"X1 5/16"	1 5/8"X1 1/4"	1 3/4"X1 1/4"
OVER 6 FT.	2"	2 1/4"X2"	2"X1 3/4"	2 1/2"	3 1/2"X3 1/2"	2 1/2"X2 1/2"	1 1/4"	1 1/2"X1 5/16"	1 5/8"X1 1/4"	1 3/4"X1 1/4"

### GATE POST DIMENSIONS (SEE STD. PLAN ST-17)

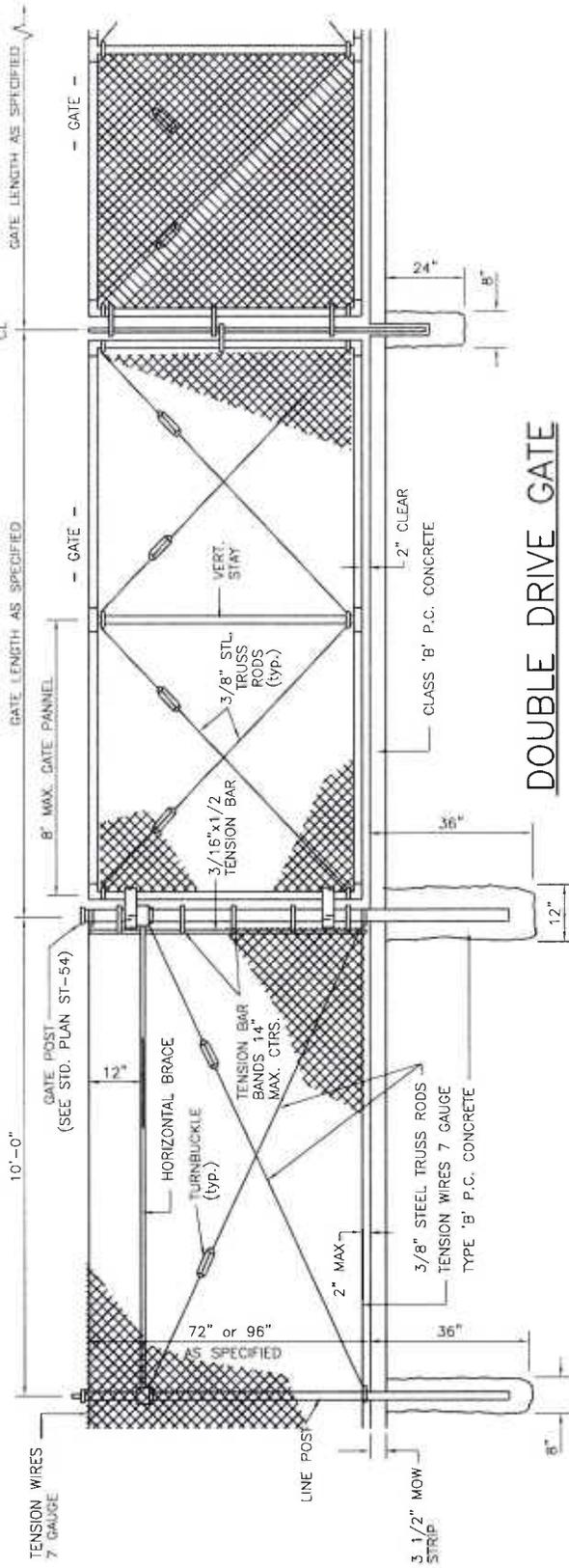
FENCE HEIGHT	GATE WIDTHS		NOMINAL I.D.	WEIGHT PER FOOT
	UP THRU 6 FT.	OVER 6 FT.		
6'-0" AND LESS	UP THRU 6 FT.	OVER 6 FT. THRU 12 FT.	2 1/2"	4.95
	OVER 6 FT. THRU 12 FT.	OVER 12 FT. THRU 18 FT.	4"	10.79
	OVER 12 FT. THRU 18 FT. MAX.	OVER 18 FT. THRU 24 FT. MAX.	5"	14.62
OVER 6'-0"	UP THRU 6 FT.	OVER 6 FT. THRU 12 FT.	3"	7.58
	OVER 6 FT. THRU 12 FT.	OVER 12 FT. THRU 18 FT.	5"	14.62
	OVER 12 FT. THRU 18 FT. MAX.	OVER 18 FT. THRU 24 FT. MAX.	6"	18.97

## FOOTING

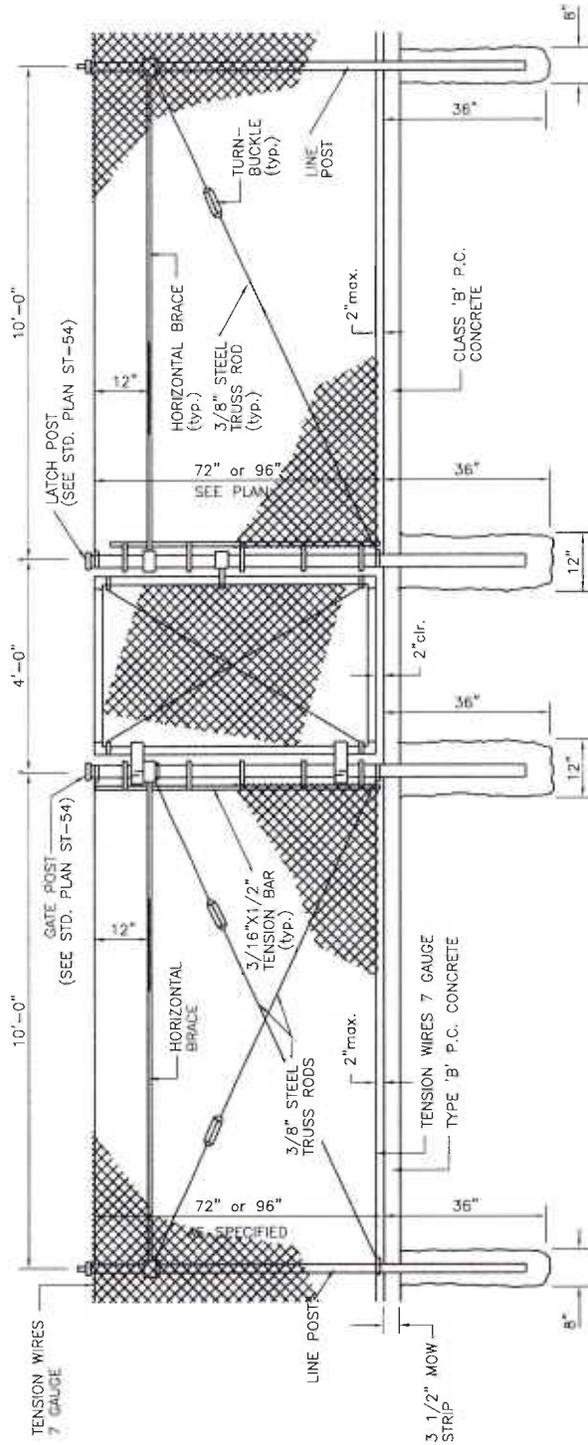


NOTE: ABOVE POST DIMENSIONS AND WEIGHTS ARE MINIMUMS. LARGER SIZES MAY BE USED ON APPROVAL OF THE CITY ENGINEER.

SYMMETRICAL ABOUT CL



### DOUBLE DRIVE GATE



NOTES:

1. TUBULAR POST SHALL BE FITTED WITH RAIN PROOF TOPS.
2. GATE FRAME SHALL BE CONSTRUCTED OF NOT LESS THAN 1 1/2" PIPE AND VERT. STAY MEMBERS SHALL BE CONSTRUCTED OF NOT LESS THAN 1" PIPE.

### 4 FT. PERSONAL GATE

FOR POST DETAILS SEE STD. PLAN ST-54

NOT TO SCALE

## CHAIN LINK FENCE DRIVE AND PERSONAL GATES

REVISIONS:  
SEPT, 2016

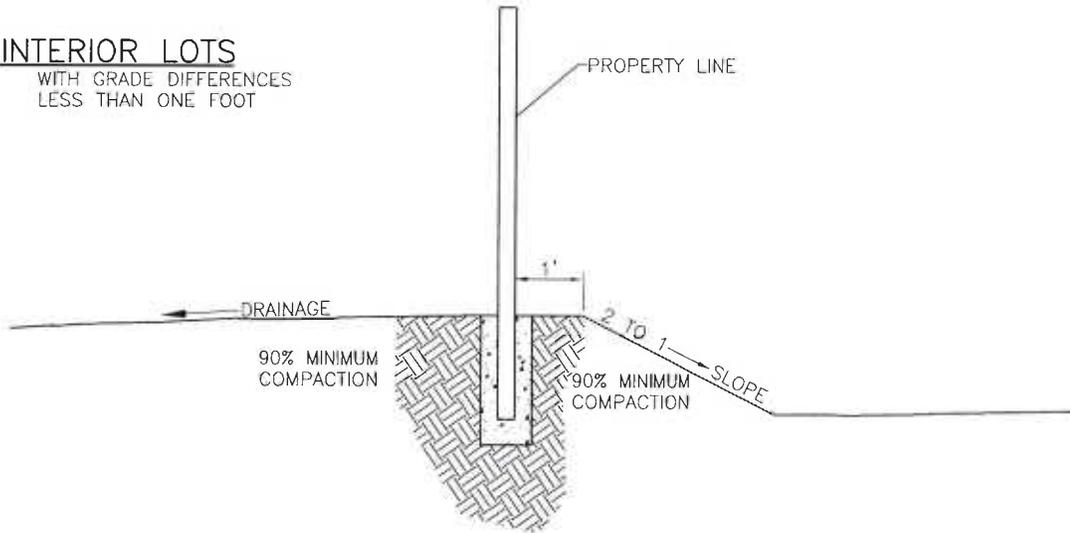
DRAWN BY: kjp

CITY OF REEDLEY

# ST-55

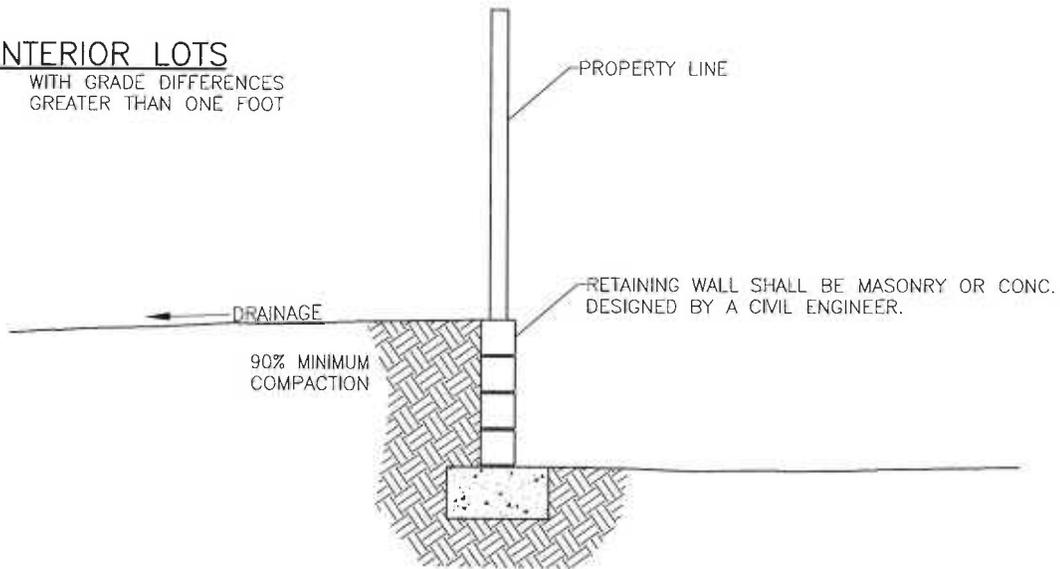
INTERIOR LOTS

WITH GRADE DIFFERENCES  
LESS THAN ONE FOOT



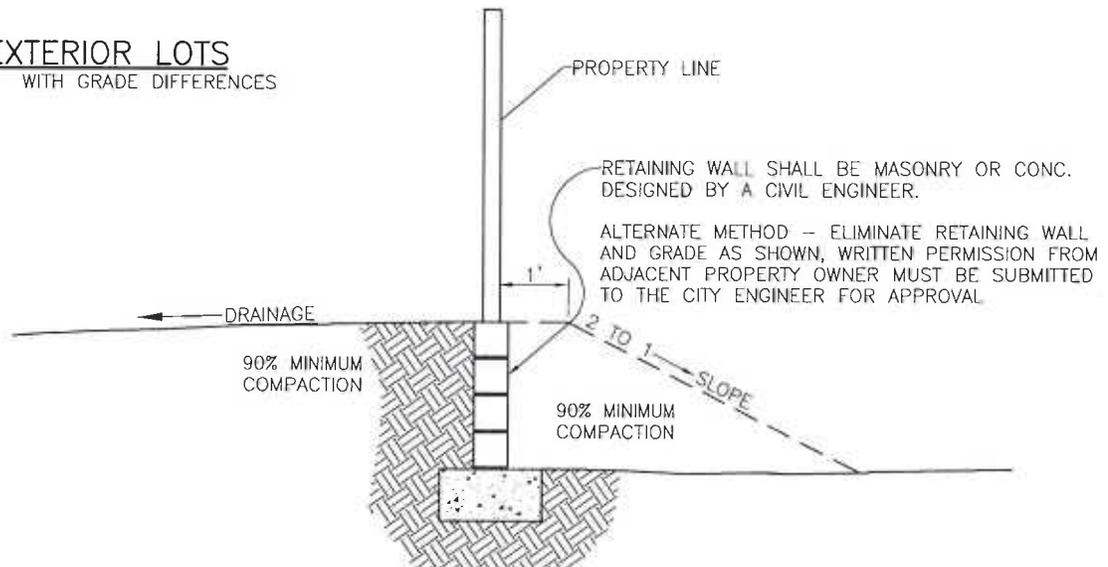
INTERIOR LOTS

WITH GRADE DIFFERENCES  
GREATER THAN ONE FOOT



EXTERIOR LOTS

WITH GRADE DIFFERENCES

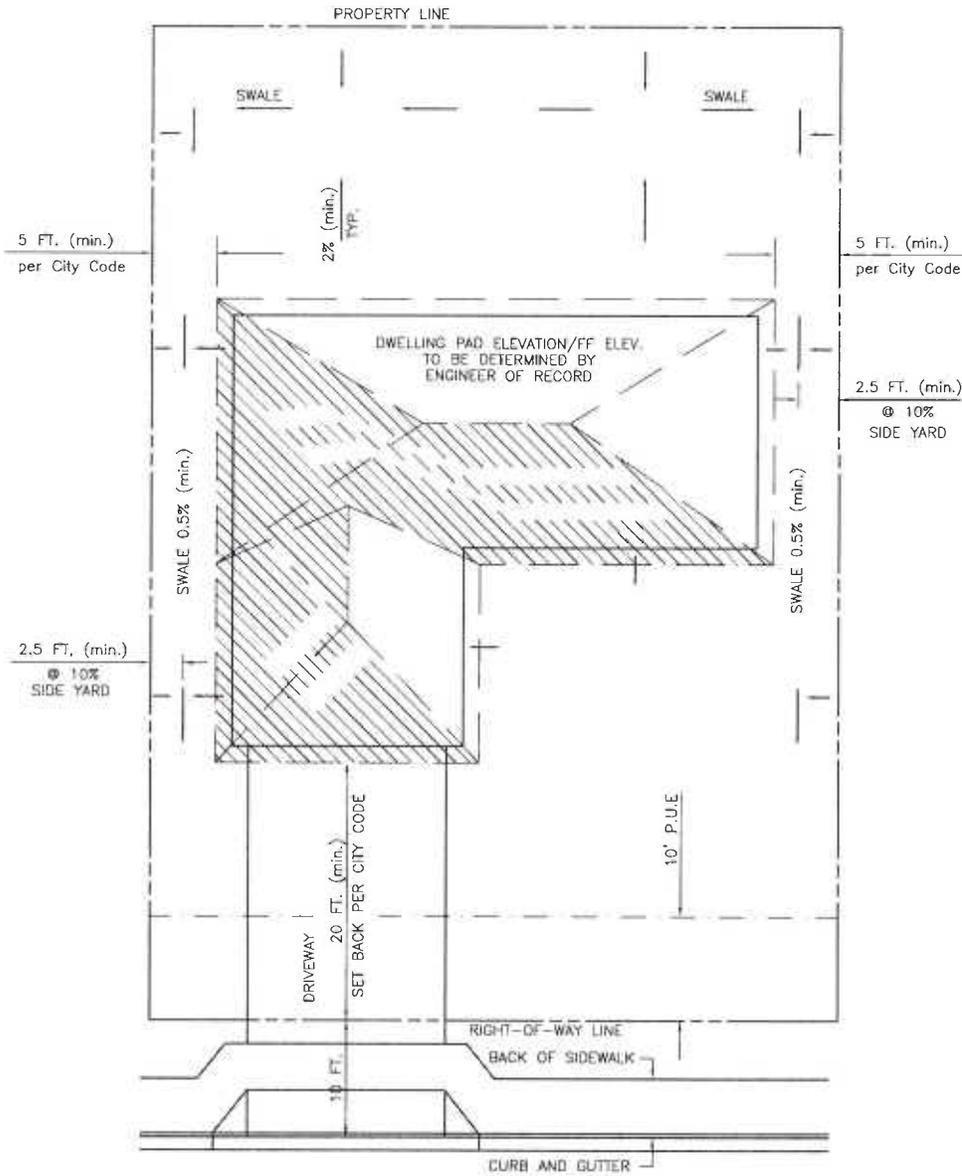


NOT TO SCALE

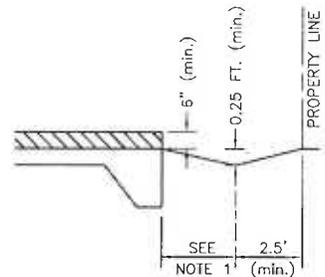
LOT LINE GRADING STANDARD

REVISIONS:  
SEPT. 2016  
  
DRAWN BY: kjp

CITY OF REEDLEY  
  
ST-56



PLAN



SIDE YARD X-SECTION

NOTES:

1. A MINIMUM OF 2% SLOPE FOR A MINIMUM OF 5 FEET FOR DRAINAGE AWAY FROM BUILDING EXCEPT SIDE YARD SLOPE MAY BE 2.5 FEET AT 10% MINIMUM SLOPE AWAY FROM BUILDING.
2. NO WATER SHALL DRAIN TO ADJACENT PROPERTY. ALL LOT DRAINAGE SHALL BE TO CITY STREET.
3. ALL GRADING SHALL COMPLY TO SECTION 7014-C OF THE 1991 UNIFORM BUILDING CODE.
4. COMPACTION REPORTS SHALL BE PREPARED BY AN APPROVED TESTING AGENCY UPON COMPLETION OF GRADING.
5. THE OVERALL BUILDING SITE SHALL HAVE A MINIMUM SLOPE OF 0.5% IN ALL AREAS TO AN APPROVED DRAINAGE FACILITY OR PUBLIC STREET.
6. BUILDING SHALL HAVE THE FOUNDATION WALL OR CONCRETE FLOOR SLAB CONSTRUCTED AT LEAST TWELVE INCHES (12") ABOVE THE CROWN OF THE ADJOINING STREET OR 12" ABOVE THE HIGHEST POINT OF TOP OF CURB ALONG THE PROPOSED SITE.

NOT TO SCALE

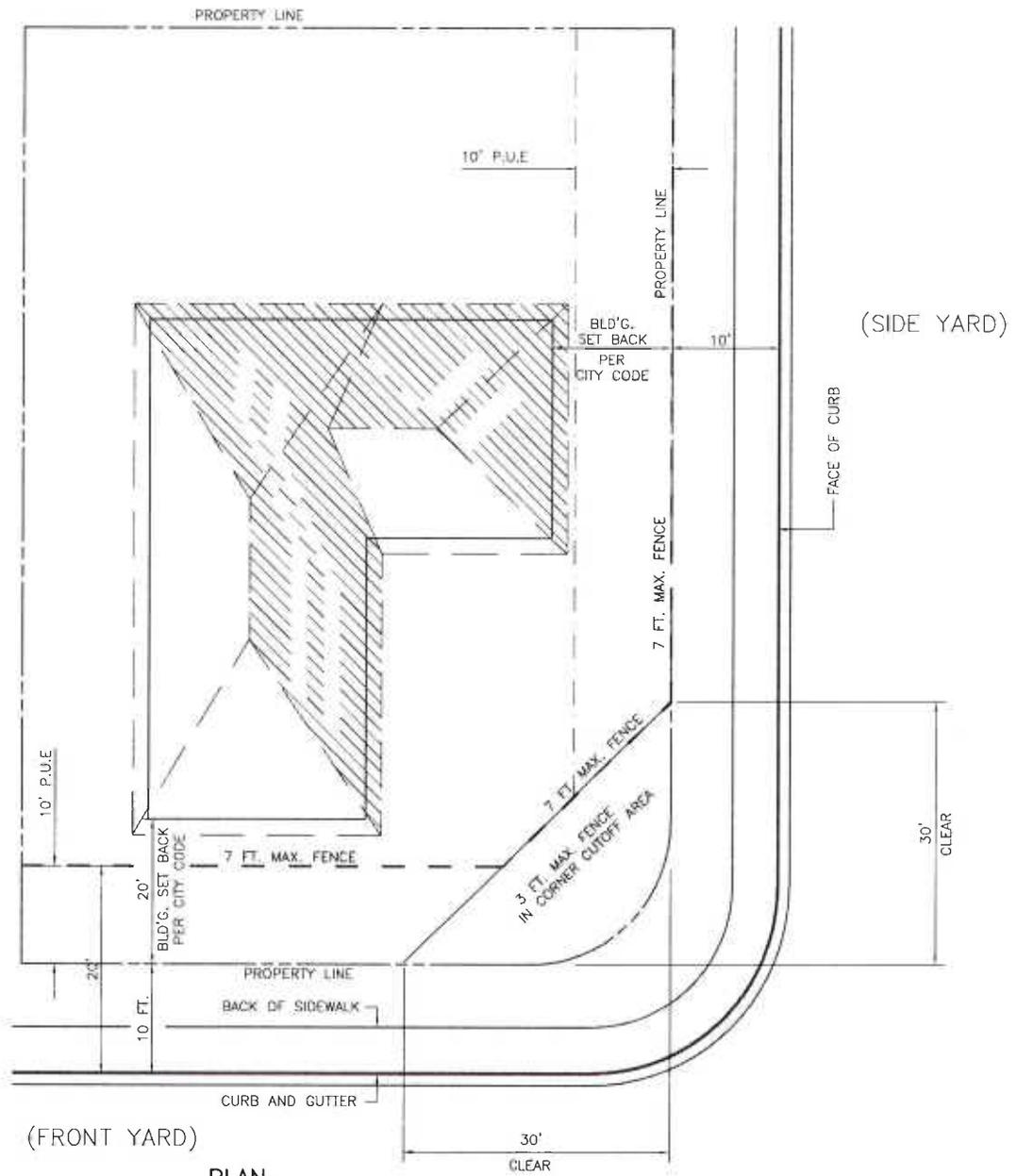
TYPICAL LOT DRAINAGE  
RESIDENTIAL

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-57



**PLAN**

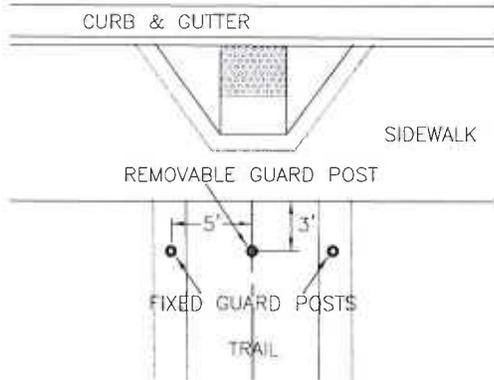
**NOTES:**

1. IN THE CASE OF A CORNER LOT, THE FRONT OF THE LOT SHALL BE AS DEFINED AS: THE LINE SEPARATING THE NARROWEST STREET FRONTAGE OF THE LOT FROM THE STREET.
2. P.U.E. = PUBLIC UTILITY EASEMENT
3. FENCES, WALLS AND HEDGES SHALL BE PERMITTED BY CITY ORDINANCE 10-6A-6 AND AS FOLLOWS:
  - a). ALONG SIDE AND REAR PROPERTY LINES AND ALONG ANY PORTION OF THE STREET SIDE YARD OF A CORNER LOT, NOT EXCEEDING SEVEN FEET (7') IN HEIGHT.
  - b). FENCES OR WALLS NOT EXCEEDING THREE FEET (3') IN HEIGHT MAY BE ERECTED WITHIN ANY PORTION OF THE REQUIRED FRONT YARD. A FENCE OR WALL NOT EXCEEDING SEVEN FEET (7') IN HEIGHT MAY BE ERECTED IN THE FRONT YARD, PROVIDED THAT IT IS SET BACK A MINIMUM OF TEN FEET (10') FROM THE FRONT PROPERTY LINE, PROVIDED THAT THE FENCE SHALL BE A MAXIMUM OF TWENTY FEET (20') FROM THE EXTERIOR LINE OF THE CURB.
  - c). OPEN FENCES NOT EXCEEDING SEVEN FEET (7') IN HEIGHT, AND HEDGES, MAY BE LOCATED WITHIN ANY REQUIRED YARD, OR ALONG ANY SIDE LOT LINE, EXCEPT AS LIMITED BY THE NOTE 3d). BELOW.
  - d). NO FENCE, WALL OR HEDGE EXCEEDING THREE FEET (3') IN HEIGHT MAY BE LOCATED WITHIN AN AREA OF A CORNER LOT ON THE STREET SIDE OF A DIAGONAL LINE CONNECTING POINTS LOCATED THIRTY FEET (30') ALONG THE PROPERTY LINE AS MEASURED FROM THE INTERSECTION OF THE PROPERTY LINES AT THE STREET CORNER.

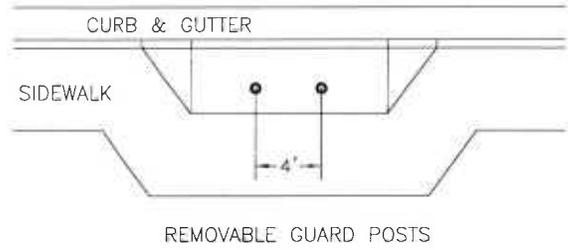
NOT TO SCALE

<p>TYPICAL RESIDENTIAL LOT FENCE LOCATION &amp; SETBACKS</p>	<p>REVISIONS: SEPT. 2016</p>	<p>CITY OF REEDLEY</p>
	<p>DRAWN BY: kjp</p>	<p>ST-58</p>

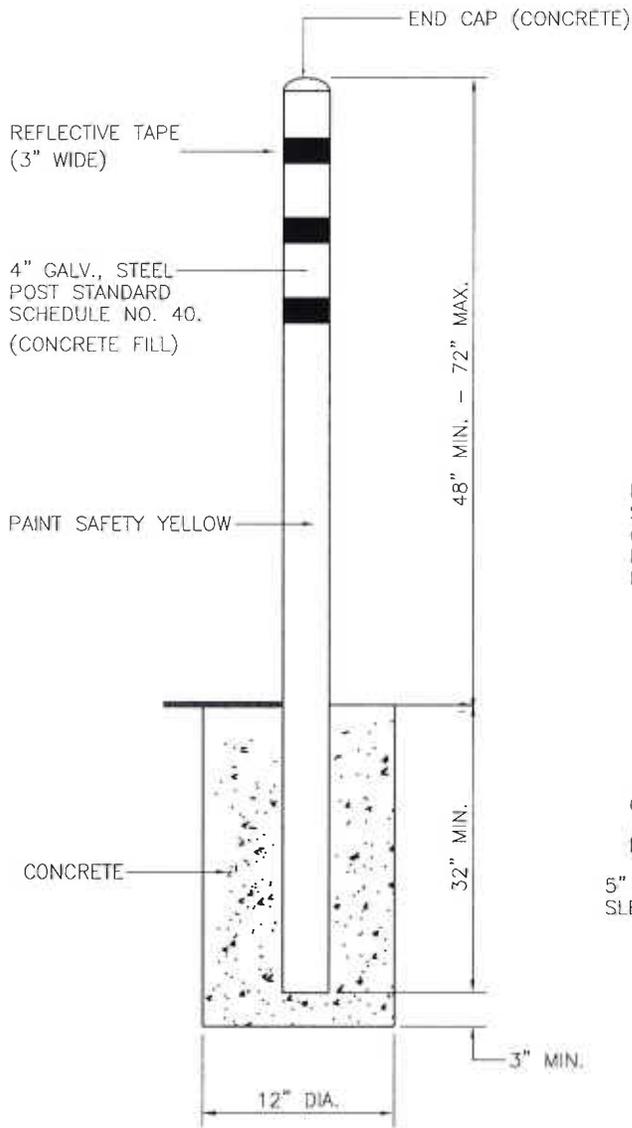
DECORATIVE BOLLARDS MAY BE USED IN PLACE OF GUARD POSTS. SEE STD. PLAN ST-60



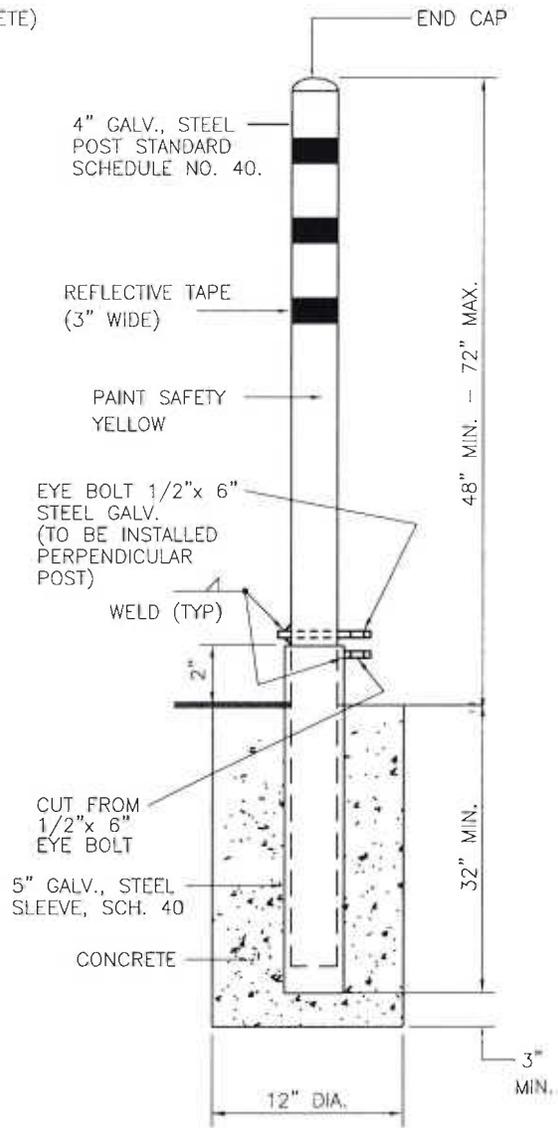
TRAIL/STREET CROSSING



DRIVEWAY RESTRICTED ACCESS



FIXED GUARD POST



REMOVABLE GUARD POST

NOT TO SCALE

STEEL GUARD  
POST DETAIL

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

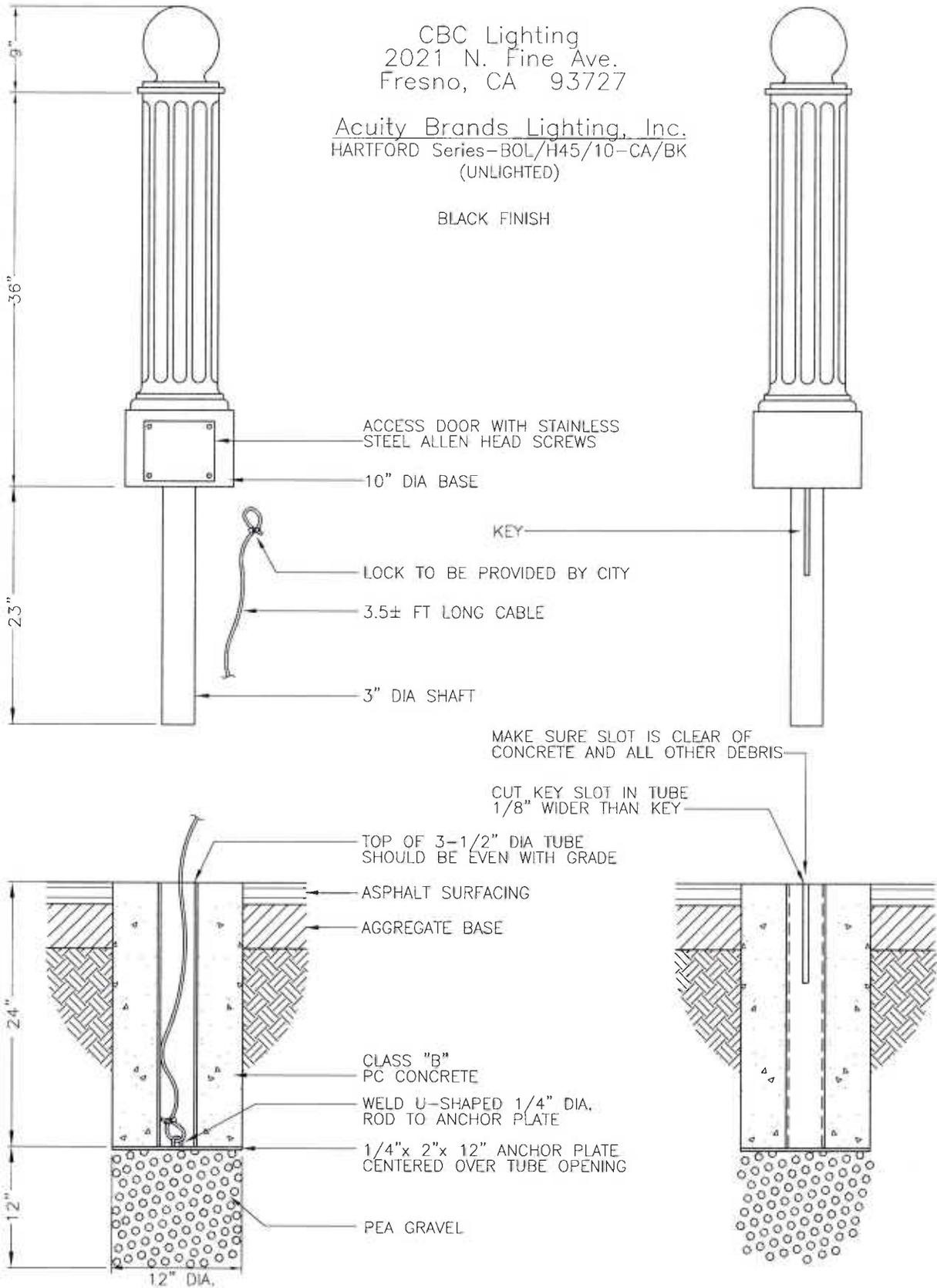
CITY OF REEDLEY

ST-59

CBC Lighting  
 201 N. Fine Ave.  
 Fresno, CA 93727

Acuity Brands Lighting, Inc.  
 HARTFORD Series-BOL/H45/10-CA/BK  
 (UNLIGHTED)

BLACK FINISH



NOT TO SCALE

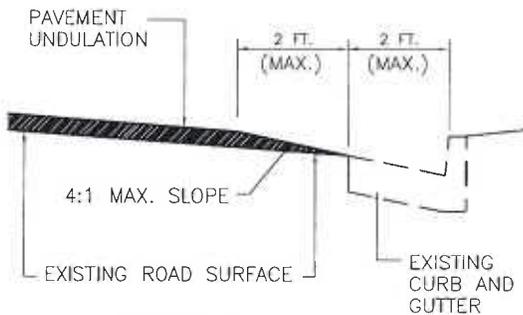
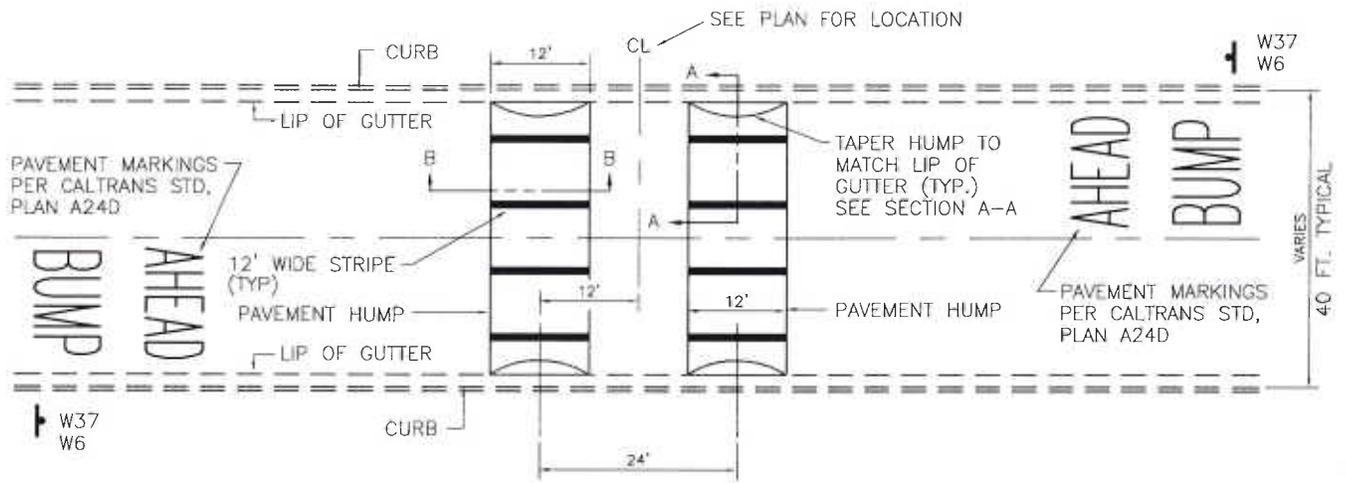
QUICK RELEASE  
 DECORATIVE BOLLARD

REVISIONS:  
 SEPT. 2016

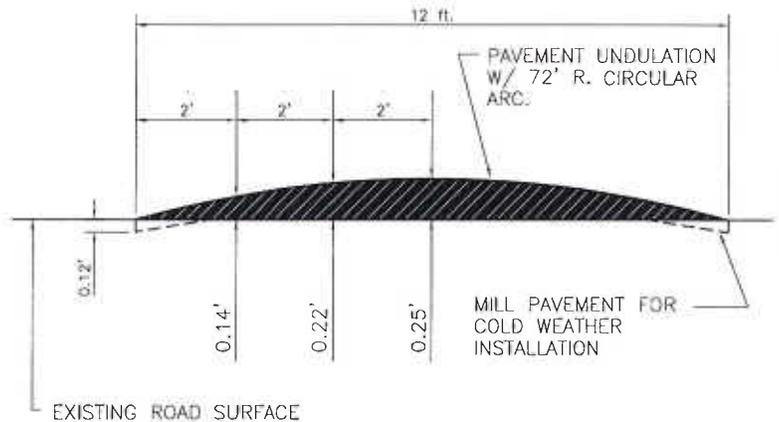
DRAWN BY: kjp

CITY OF REEDLEY

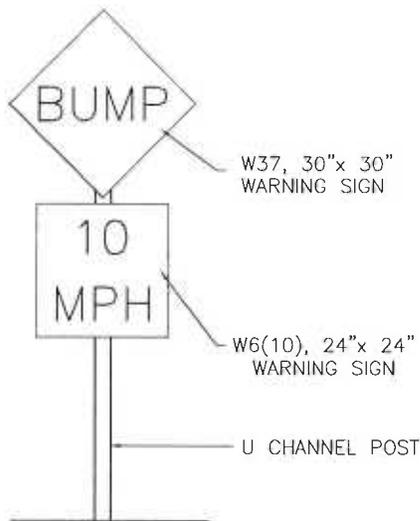
ST-60



**SECTION A-A**



**SECTION B-B**



**DETAIL-A**

REFER TO STD. PLAN ST-44

**INSTALLATION DETAILS**

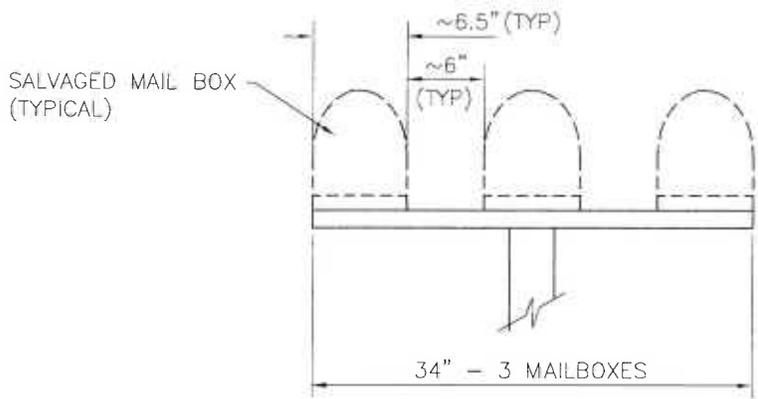
1. TWO HUMPS 24 FT. APART CENTER TO CENTER SHALL BE CONSTRUCTED AT GIVEN LOCATIONS UNLESS OTHERWISE NOTED.
2. HUMPS SHALL NOT BE PLACED OVER EXISTING ROAD SERVICE COVERS, DRAIN INLETS, ETC.
3. WHENEVER POSSIBLE EDGE OF HUMPS SHALL BE 5 FT. MINIMUM FROM EDGE OF DRIVEWAY.
4. WHENEVER POSSIBLE HUMPS SHALL BE PLACED AT PROPERTY LINES.
5. WHENEVER POSSIBLE HUMPS SHALL BE PLACED ADJACENT TO STREET LIGHTS.
6. PARKING SHALL BE PROHIBITED AS DIRECTED BY THE CITY ENGINEER.
7. ALL STRIPING SHALL BE WHITE, OR YELLOW AT LOCATIONS WITHIN 500 FT. OF A SCHOOL.

**NOTE:**

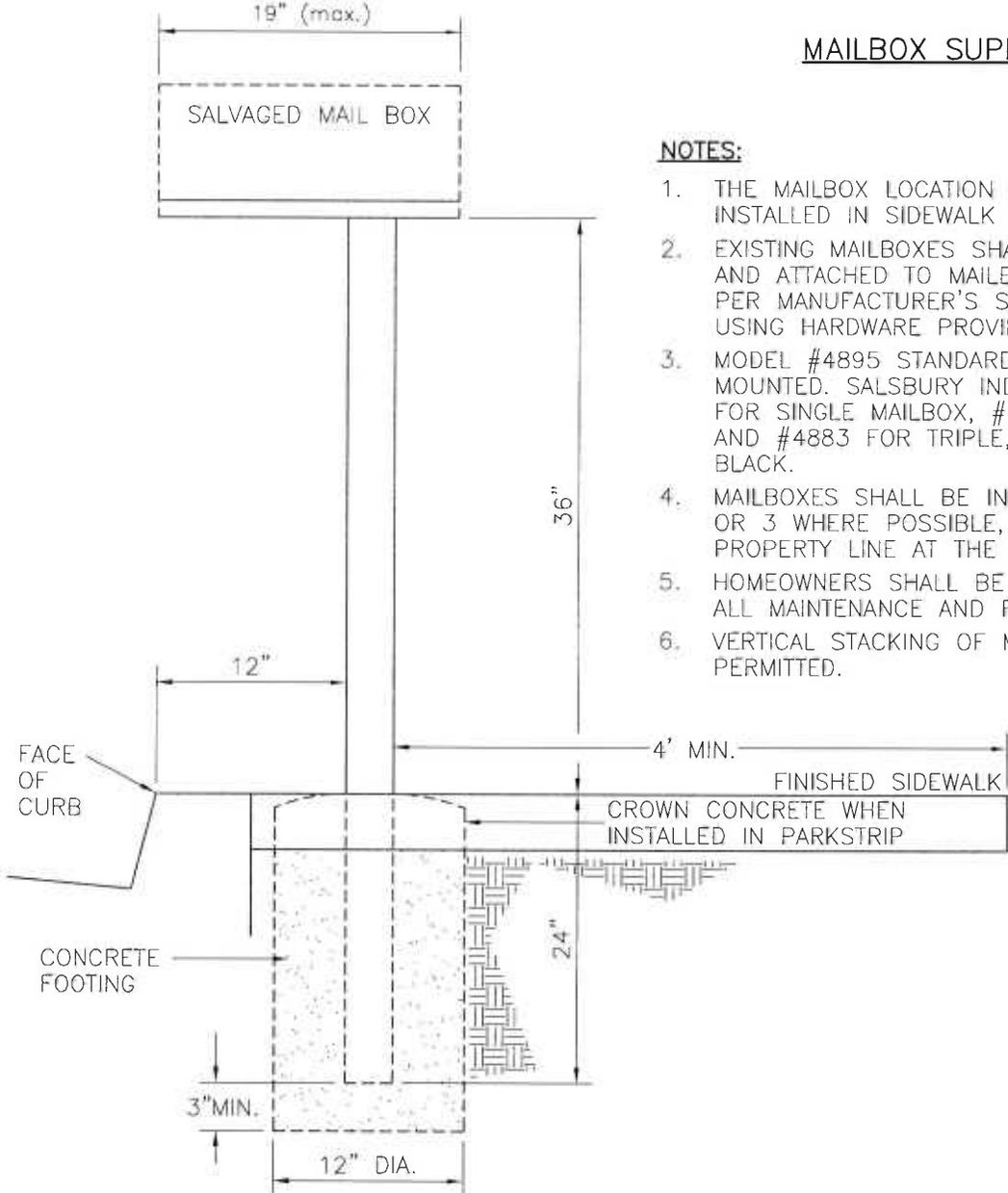
THE LOCATION, FUNDING AND APPROVAL FOR INSTALLATION OF SPEED BUMPS SHALL BE BY RESOLUTION OF THE CITY COUNCIL AFTER REVIEW BY THE TRAFFIC SAFETY COMMISSION. SPEED BUMPS MUST MEET THE CITY OF REEDLEY SPEED BUMP POLICY WARRANT REQUIREMENTS.

NOT TO SCALE

STANDARD SPEED BUMP	REVISIONS: SEPT. 2016	CITY OF REEDLEY
	DRAWN BY: kjp	ST-61



**MAILBOX SUPPORT DETAIL**



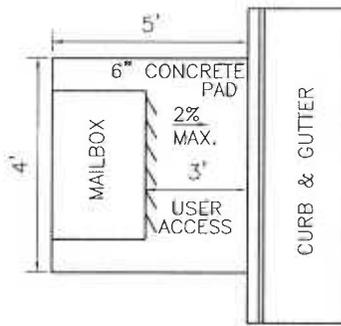
**INSTALLATION DETAILS**

**NOTES:**

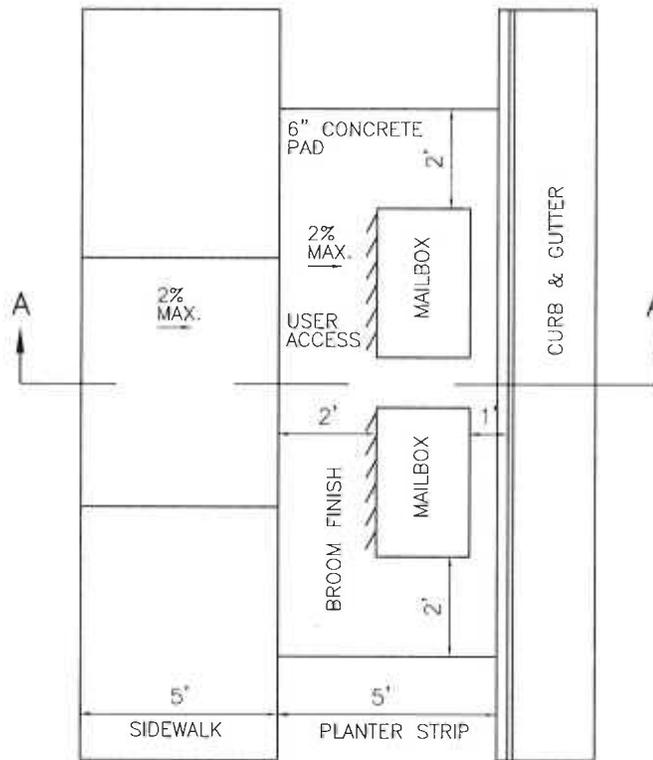
1. THE MAILBOX LOCATION IS THE SAME WHEN INSTALLED IN SIDEWALK OR IN PARKSTRIP.
2. EXISTING MAILBOXES SHALL BE SALVAGED AND ATTACHED TO MAILBOX SUPPORT PER MANUFACTURER'S SPECIFICATIONS USING HARDWARE PROVIDED WITH POST.
3. MODEL #4895 STANDARD POST IN-GROUND MOUNTED. SALSBURY INDUSTRIES OR EQUAL, FOR SINGLE MAILBOX, #4882 FOR DOUBLE AND #4883 FOR TRIPLE, COLOR SHALL BE BLACK.
4. MAILBOXES SHALL BE IN COLLECTIONS OF 2 OR 3 WHERE POSSIBLE, LOCATED AT THE PROPERTY LINE AT THE BACK OF CURB.
5. HOMEOWNERS SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND REPAIR.
6. VERTICAL STACKING OF MAILBOXES IS NOT PERMITTED.

NOT TO SCALE

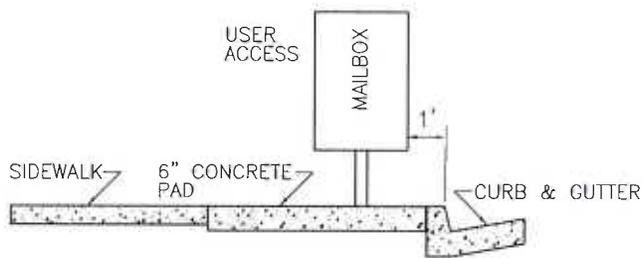
<p>STANDARD MAILBOX POST RELOCATION DETAIL</p>	<p>REVISIONS: SEPT. 2016</p>	<p>CITY OF REEDLEY</p>
	<p>DRAWN BY: kjp</p>	<p>ST-62</p>



PLAN—WITHOUT SIDEWALK



PLAN—IN PARKSTRIP



SECTION A—A

**NOTES:**

1. ALL MAILBOX CLUSTER DESIGNS SHALL BE APPROVED BY THE UNITED STATES POSTAL SERVICE PRIOR TO INSTALLATION.
2. ALL MAILBOX CONCRETE PADS SHALL HAVE 4"x6" WELDED WIRE MESH REINFORCEMENT.

NOT TO SCALE

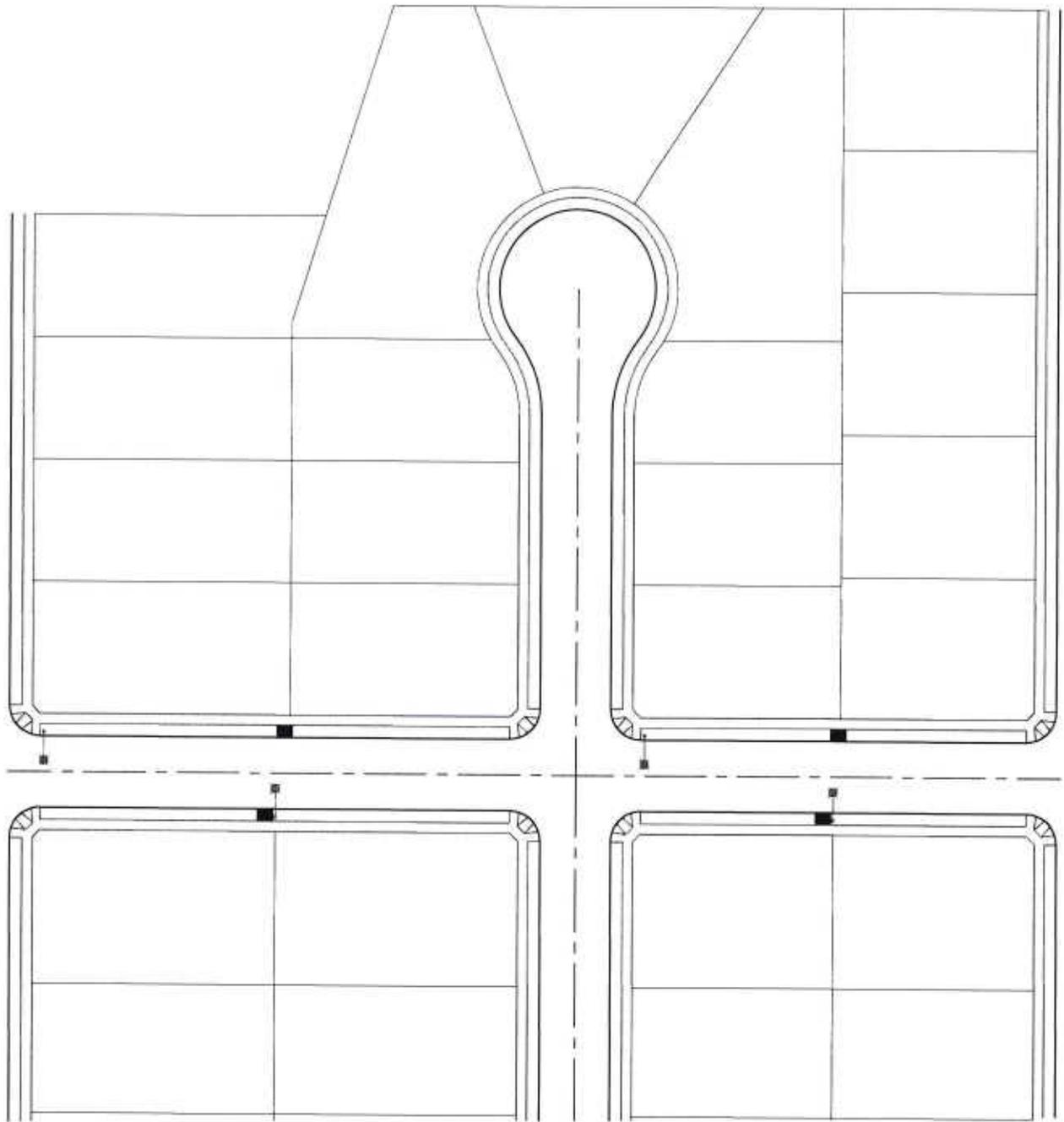
TYPICAL MAILBOX  
CLUSTER DETAIL

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-63



■ TYPICAL MAILBOX  
CLUSTER LOCATION

**NOTES:**

1. ALL MAILBOX CLUSTER LOCATIONS SHALL BE APPROVED BY THE UNITED STATES POSTAL SERVICE PRIOR TO INSTALLATION.
2. ALL MAILBOX CLUSTER LOCATIONS SHALL HAVE A STREETLIGHT WITHIN 10 FEET OF CONCRETE PAD OR DIRECTLY ACROSS THE STREET.

NOT TO SCALE

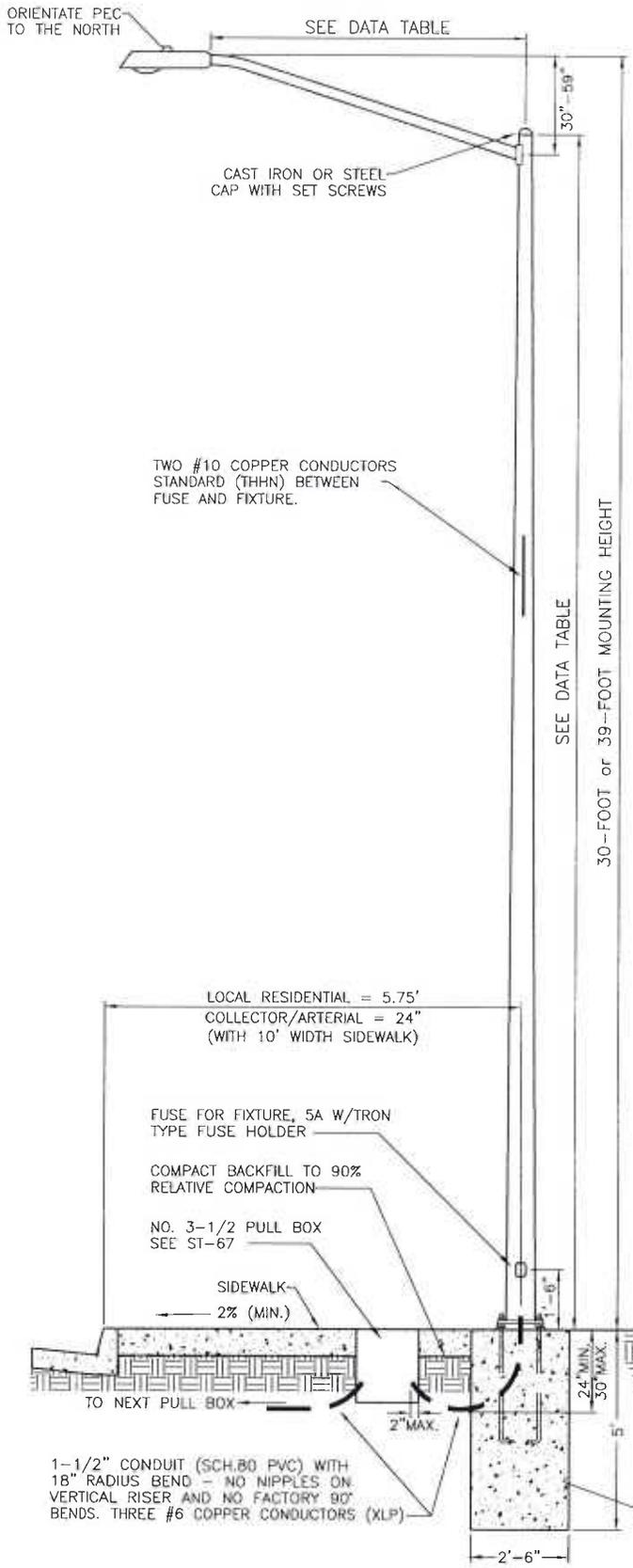
TYPICAL MAILBOX  
CLUSTER LOCATION

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

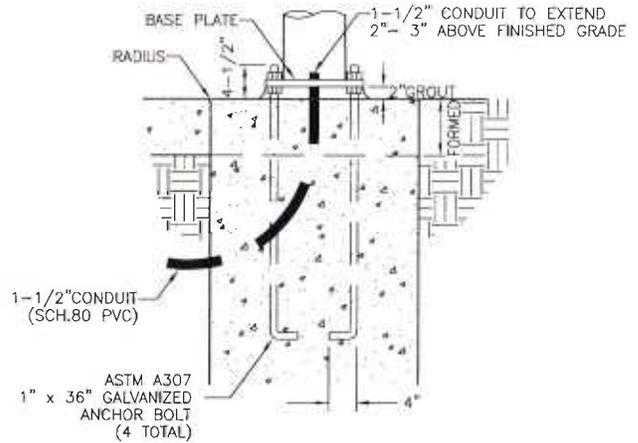
ST-64



POLE AND LUMINAIRE ARM DATA			
STREET CLASSIFICATION	No. OF LANES	MAST ARM LENGTH	POLE HEIGHT
LOCAL	2	8-FOOT	28-FOOT
COLLECTOR	2	8-FOOT	28-FOOT
	4	12-FOOT	30-FOOT
ARTERIAL	4	12-FOOT	30-FOOT

**GENERAL NOTES**

1. ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE SPECIFICATIONS ENTITLED STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, BUSINESS AND TRANSPORTATION AGENCY, DEPARTMENT OF TRANSPORTATION AND NATIONAL ELECTRICAL CODE, AND THESE PROVISIONS.
2. REFER TO PLAN SHEET OR ST-69 FOR PLACEMENT AND WATTAGE EQUIVALENCY REQUIREMENTS.
3. ALL STREET LIGHTS SHALL BE NUMBERED. REFER TO ST-70.
4. THE DEVELOPER SHALL APPLY FOR RULE 16 WITH PG&E.
5. THE CITY SHALL REQUEST STREET LIGHT ACTIVATION WITH PG&E PRIOR TO NOTICE OF COMPLETION.
6. LUMINAIRE SHALL BE:  
 HPS 70W EQUIVALENT CREE  
 STR-LWT-2S-HT-03-E-UL-SV-525-40K-DIM-UTL-R  
 HPS 100W EQUIVALENT CREE  
 STR-LWT-2S-HT-04-E-UL-SV-525-40K-DIM-UTL-R  
 HPS 150W EQUIVALENT CREE  
 STR-LWT-2S-HT-05-E-UL-SV-525-40K-DIM-UTL-R



**BASE DETAIL**

**LIGHT STANDARD  
TYPE 15**

NOT TO SCALE

STREET LIGHT  
STANDARD

REVISIONS:  
SEPT. 2016

DRAWN BY: ksj

CITY OF REEDLEY

ST-65

ORIENTATE PEC TO THE NORTH

SEE DATA TABLE

CAST IRON OR STEEL CAP WITH SET SCREWS

SEE DATA TABLE

30-FOOT or 39-FOOT MOUNTING HEIGHT

TWO #10 COPPER CONDUCTORS STANDARD (THHN) BETWEEN FUSE AND FIXTURE

FUSE FOR FIXTURE, 5A W/TRON TYPE FUSE HOLDER

TO NEXT PULL BOX

1-1/2" CONDUIT WITH 18" RADIUS BEND-NO NIPPLES ON VERTICAL RISER AND NO FACTORY 90° BENDS. THREE #6 COPPER CONDUCTORS (XLP)

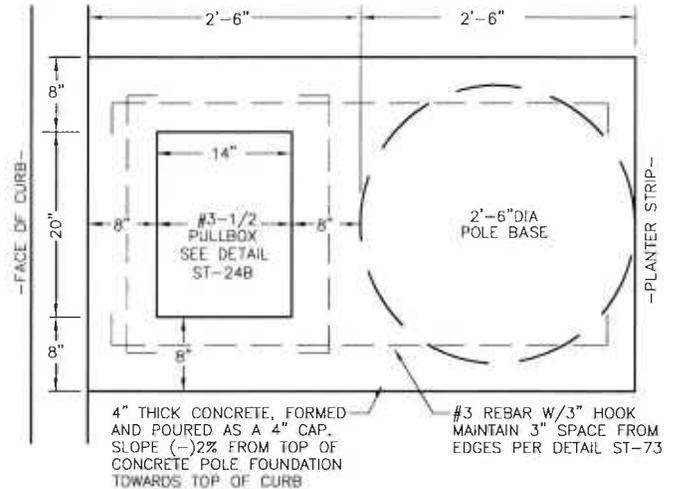
**LIGHT STANDARD TYPE 15**

FIELDCAST FOUNDATION CLASS B CONCRETE, NON-REINFORCED 28 DAY COMPRESSIVE STRENGTH 2500 PSI.

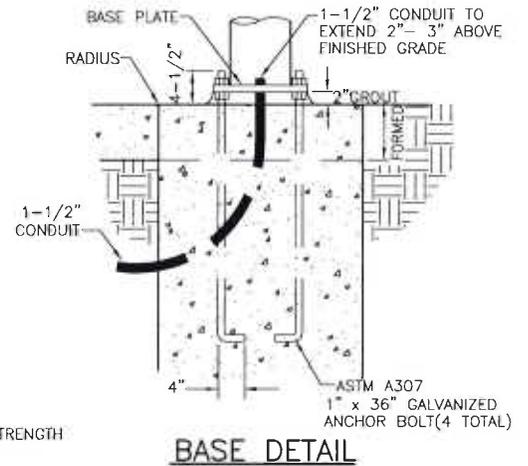
POLE AND LUMINAIRE ARM DATA			
STREET CLASSIFICATION	No. OF LANES	MAST ARM LENGTH	POLE HEIGHT
LOCAL	2	8-FOOT	28-FOOT
COLLECTOR	2	8-FOOT	28-FOOT
	4	12-FOOT	30-FOOT
ARTERIAL	4	12-FOOT	30-FOOT

**GENERAL NOTES**

- ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE SPECIFICATIONS ENTITLED STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, BUSINESS AND TRANSPORTATION AGENCY, DEPARTMENT OF TRANSPORTATION AND NATIONAL ELECTRICAL CODE, AND THESE PROVISIONS.
- REFER TO PLAN SHEET OR ST-69 FOR PLACEMENT AND WATTAGE EQUIVALENCY REQUIREMENTS.
- ALL STREET LIGHTS SHALL BE NUMBERED. REFER TO ST-70.
- THE DEVELOPER SHALL APPLY FOR RULE 16 WITH PG&E.
- THE CITY SHALL REQUEST STREET LIGHT ACTIVATION WITH PG&E PRIOR TO NOTICE OF COMPLETION.
- LUMINAIRE SHALL BE:  
HPS 70W EQUIVALENT CREE  
STR-LWT-2S-HT-03-E-UL-SV-525-40K-DIM-UTL-R  
HPS 100W EQUIVALENT CREE  
STR-LWT-2S-HT-04-E-UL-SV-525-40K-DIM-UTL-R  
HPS 150W EQUIVALENT CREE  
STR-LWT-2S-HT-05-E-UL-SV-525-40K-DIM-UTL-R



**PLAN VIEW**



**BASE DETAIL**

NOT TO SCALE

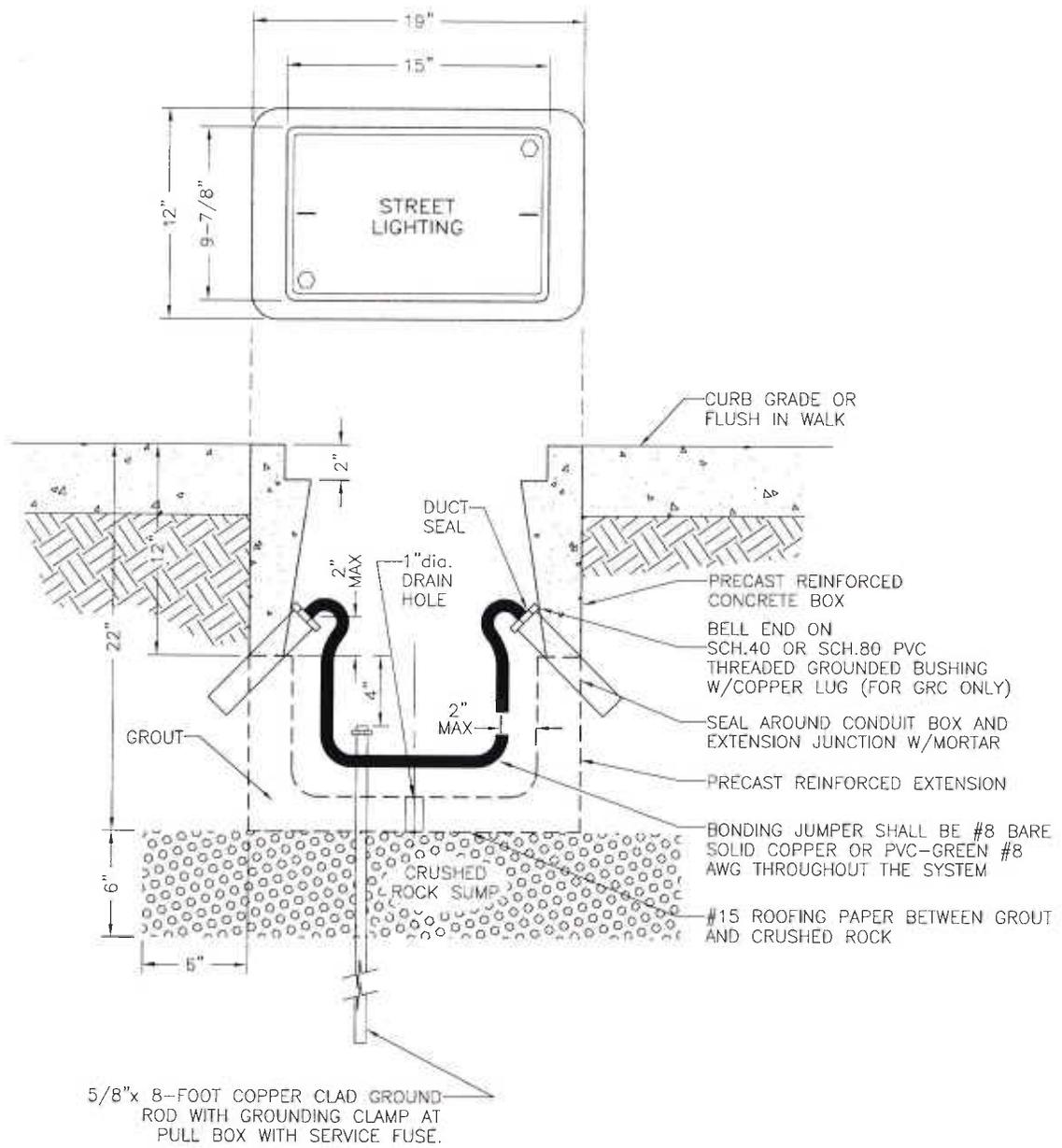
**STREET LIGHT STANDARD**  
(Located Within Planter Strip)

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-66



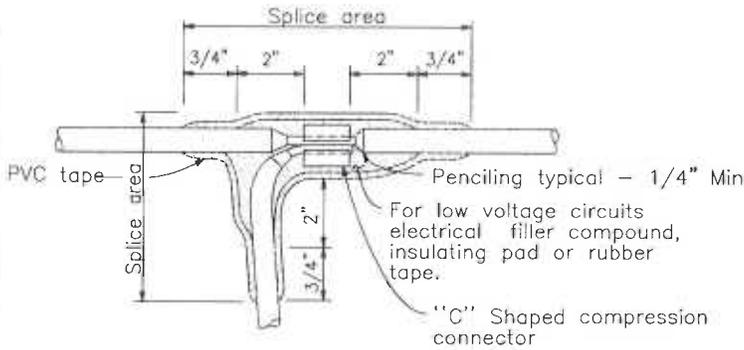
5/8"x 8-FOOT COPPER CLAD GROUND ROD WITH GROUNDING CLAMP AT PULL BOX WITH SERVICE FUSE.

**GENERAL NOTES**

1. PULL BOXES SHALL BE NO. 3-1/2 AS PER CAL TRANS STANDARD SPECIFICATIONS OR CHRISTY N-9 OR APPROVED EQUAL.
2. PULL BOXES SHALL BE GROUTED PRIOR TO INSTALLATION OF CONDUCTORS SLOPED TOWARD THE DRAIN HOLE. PLACE A LAYER OF ROOFING PAPER BETWEEN THE CRUSHED ROCK AND THE GROUT.
3. PULL LIDS BEFORE POURING CONCRETE AROUND PULL BOXES.
4. WRAP PULL BOX WITH ROOFING PAPER BEFORE BACKFILLING.
5. FUSE AT POINT OF SERVICE SHALL BE 60A IF #6 CONDUCTOR AND 40A IF #8 CONDUCTOR AND SHALL HAVE A TRON TYPE FUSE HOLDER (SINGLE POLE).
6. INSTALL A ONE-FOOT RING OF CONCRETE, FOUR INCHES DEEP, AROUND THE WRAPPED PULL BOX INSTALLED IN DIRT AREA, SLOPED TO DRAIN AWAY FROM THE PULL BOX.
7. ALL LIDS ON ALL UTILITY BOXES SHALL HAVE LOCKING BOLTS.

NOT TO SCALE

STREET LIGHT STANDARD PULL BOX	REVISIONS: SEPT. 2016	CITY OF REEDLEY
	DRAWN BY: kjp	ST-67



**TYPE "C" SPLICE**

Between 1 free-end and 1 through conductor

**NOTES**

1. All dimensions are minimum.
2. Rubber tapes shall be rolled after application.

**INSULATION METHODS**

**Low Voltage Circuits (0-600 V)**

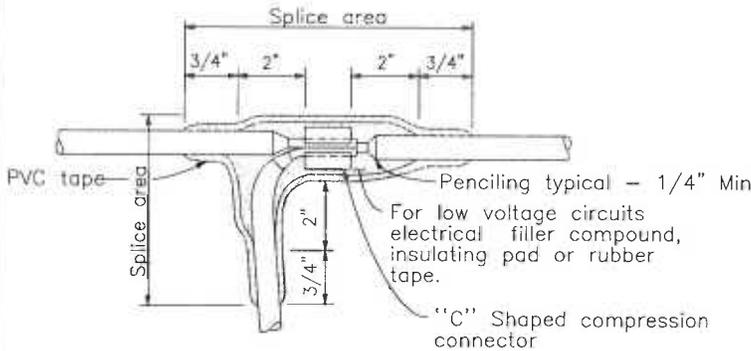
**METHOD "A" (Used only when specified)**

1. Completely cover the splice area with electrical insulating coating and allow to dry.
2. Apply electrical filler compound with minimum thickness of 0.15".
3. Apply 3 layers half lapped polyvinyl chloride tape.
4. Cover entire splice with electrical insulating coating and allow to dry.

OR

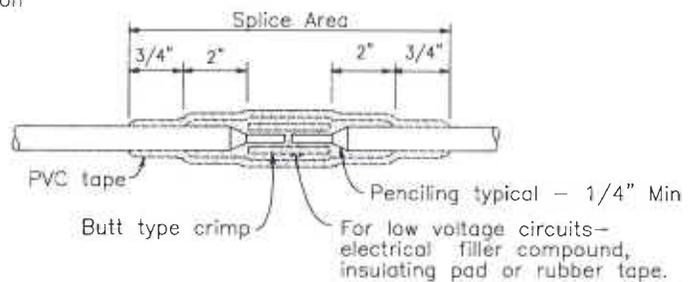
**METHOD "B"**

1. Completely cover the splice area with electrical insulating coating and allow to dry.
2. Apply 2 layers of electrical insulating pad with min. thickness of 0.15" each layer or 2 layers, half lapped, synthetic oil resistant, self fusing rubber tape.
3. Apply 3 layers half lapped polyvinyl chloride tape.
4. Cover entire splice with electrical insulating coating and allow to dry.



**TYPE "T" SPLICE**

For 3 free-ends



**TYPE "S" SPLICE**

Between 2 free-ends

NOT TO SCALE

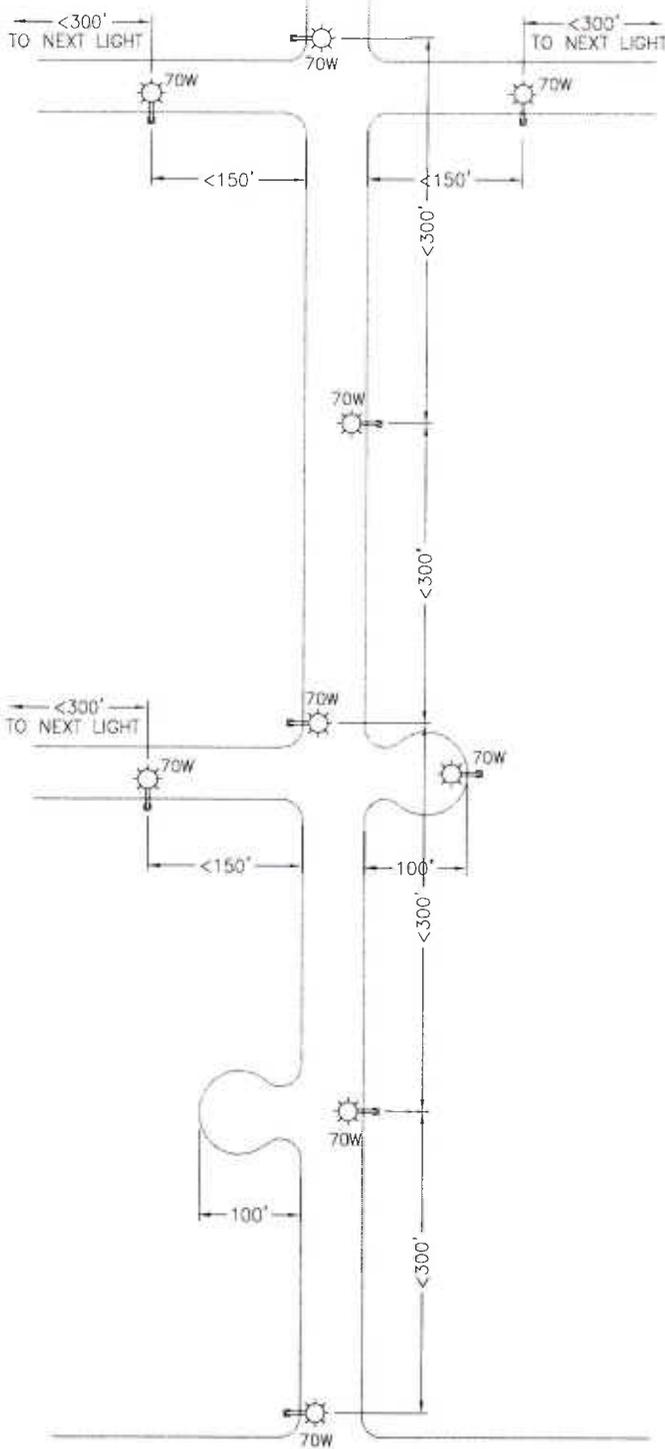
STREET LIGHT AND  
ELECTRICAL SYSTEMS  
SPLICING DETAILS

REVISIONS:  
SEPT. 2016

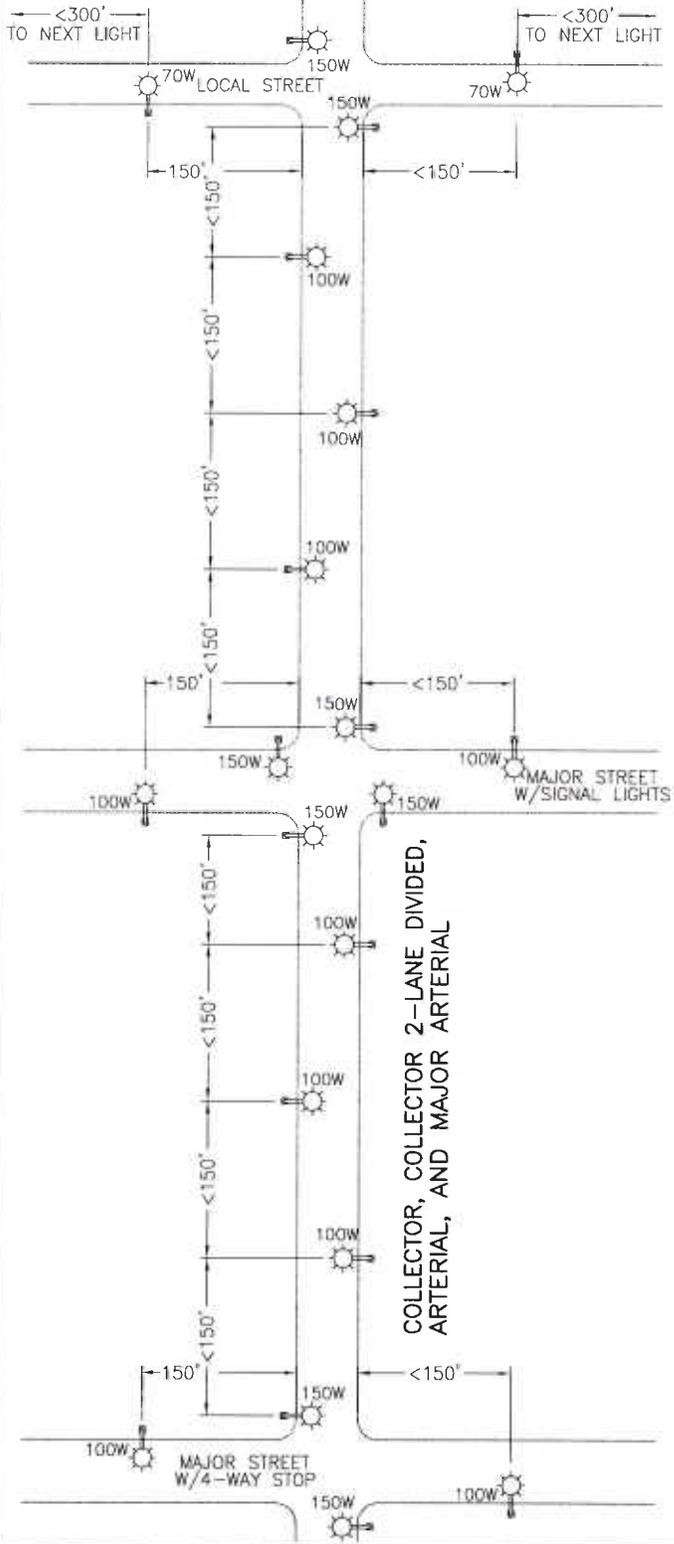
DRAWN BY: kjp

CITY OF REEDLEY

ST-68



LOCAL RESIDENTIAL OR LOCAL INDUSTRIAL



COLLECTOR, COLLECTOR 2-LANE DIVIDED, ARTERIAL, AND MAJOR ARTERIAL

NOT TO SCALE

**PLACEMENT REQUIREMENTS**

**STREET CLASSIFICATION**

- LOCAL RESIDENTIAL
- LOCAL INDUSTRIAL
- COLLECTOR
- COLLECTOR 2-LANE DIVIDED
- ARTERIAL
- MAJOR ARTERIAL

**MAXIMUM DISTANCE BETWEEN LIGHTS**

- 300' EITHER SIDE OF STREET 70 WATT LIGHTS EQUIVALENT
- 300' ON BOTH SIDES OF STREET, STAGGERED AT 150'
- 150 WATT LIGHTS EQUIVALENT AT INTERSECTIONS
- 100 WATT LIGHTS EQUIVALENT MID BLOCK

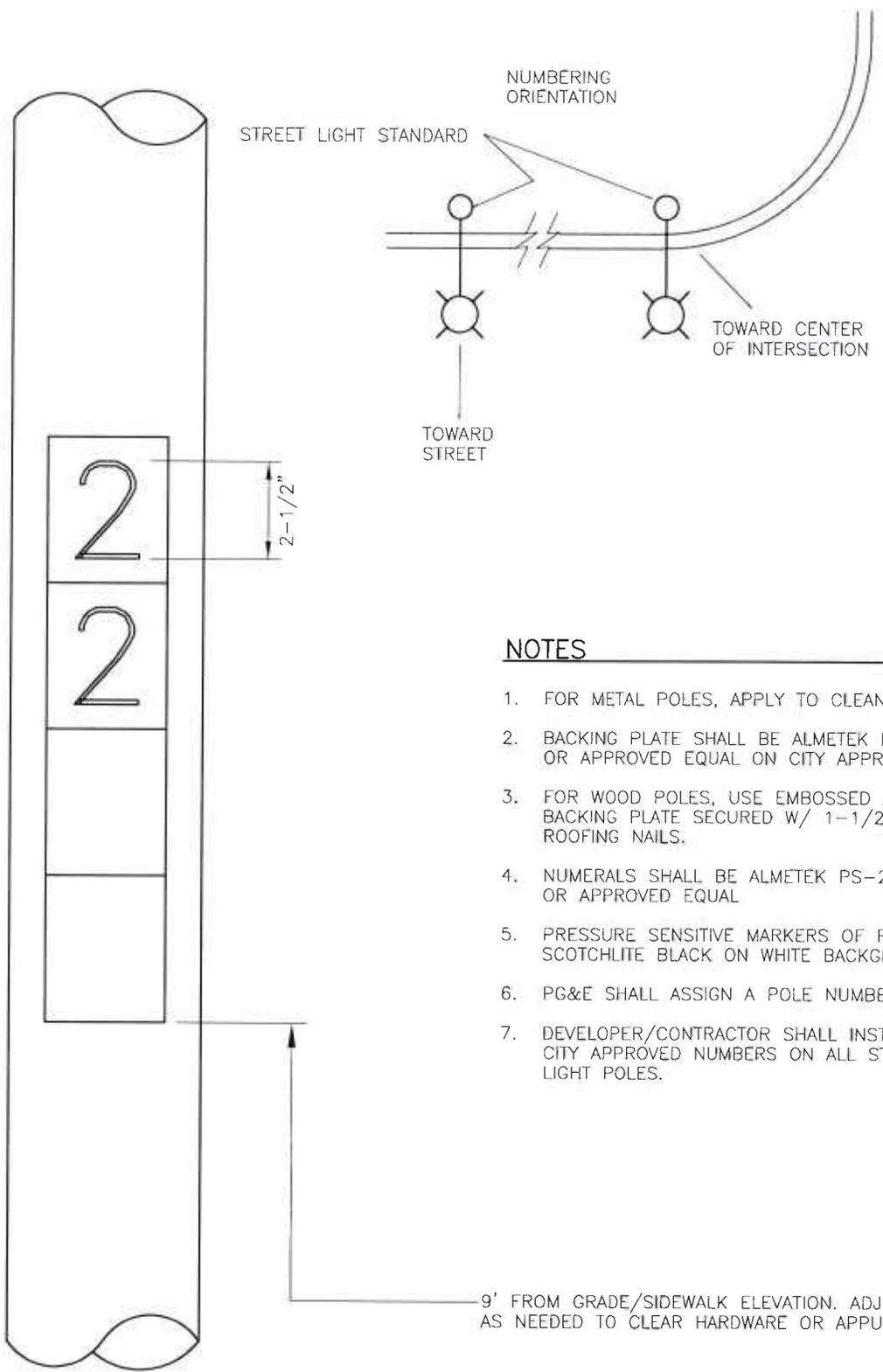
STREET LIGHT PLACEMENT

REVISIONS:  
SEPT. 2016

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CITY OF REEDLEY

ST-69



**NOTES**

1. FOR METAL POLES, APPLY TO CLEAN SURFACE.
2. BACKING PLATE SHALL BE ALMETEK EMP-2.5V5 OR APPROVED EQUAL ON CITY APPROVED POLES.
3. FOR WOOD POLES, USE EMBOSSED ALUMINUM BACKING PLATE SECURED W/ 1-1/2" ALUMINUM ROOFING NAILS.
4. NUMERALS SHALL BE ALMETEK PS-2.5 SERIES OR APPROVED EQUAL
5. PRESSURE SENSITIVE MARKERS OF REFLECTIVE SCOTCHLITE BLACK ON WHITE BACKGROUND.
6. PG&E SHALL ASSIGN A POLE NUMBER.
7. DEVELOPER/CONTRACTOR SHALL INSTALL CITY CITY APPROVED NUMBERS ON ALL STREET LIGHT POLES.

9' FROM GRADE/SIDEWALK ELEVATION. ADJUST AS AS NEEDED TO CLEAR HARDWARE OR APPURTENANCES.

NOT TO SCALE

STREET LIGHT  
POLE NUMBERING

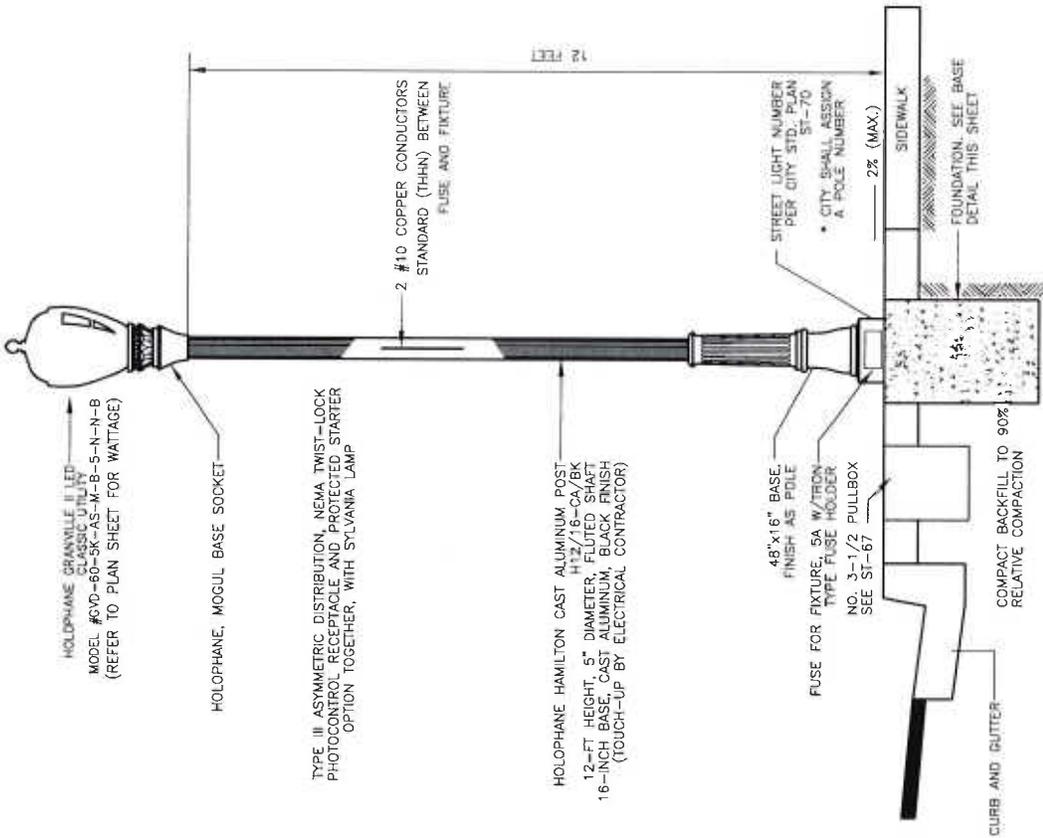
REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-70

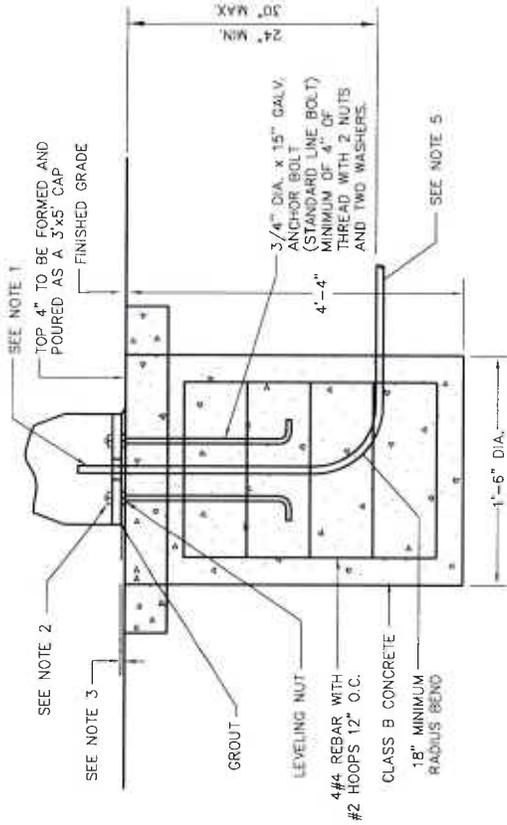
NOT TO SCALE



**HOLOPHANE UTILITY GRANVILLE  
HISTORIC LIGHT DETAIL**

**GENERAL NOTES**

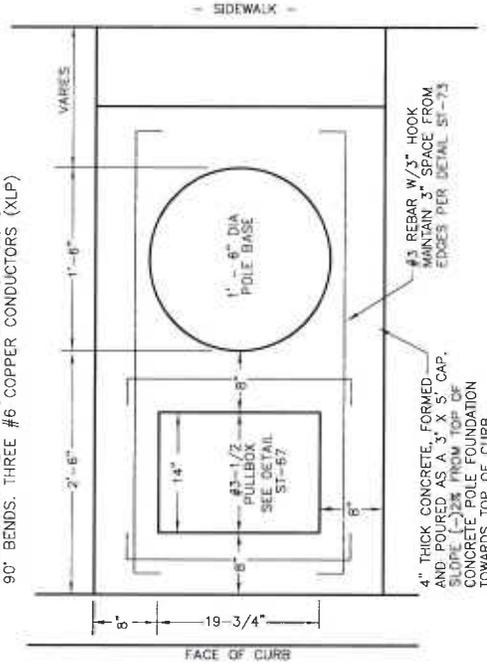
1. THE DEVELOPER SHALL APPLY FOR RULE 16 WITH PG&E.
2. ORIENTATE PHOTO ELECTRIC CELL (PEC) TO THE NORTH.
3. THE CITY SHALL REQUEST STREET LIGHT ACTIVATION WITH PG&E PRIOR TO NOTICE OF COMPLETION.



**BASE DETAIL**

NTS

1. CONDUITS SHALL EXTEND 2" MAXIMUM ABOVE BASE PLATE.
2. THREADED PORTION OF ANCHOR BOLTS NOT TO EXTEND MORE THAN 1" ABOVE TOP OF HOLD DOWN NUT.
3. 2" (MAX.) FROM BOTTOM OF STEEL BASE PLATE TO FINISHED SURFACE.
4. #4 REBAR CAGE PER DETAIL NOTE ABOVE
5. 1-1/2" CONDUIT WITH 18" RADIUS BEND-NO NIPPLES ON VERTICAL RISER AND NO FACTORY 90° BENDS. THREE #6 COPPER CONDUCTORS (XLP)



**STREET LIGHT AND PULL BOX LOCATION DETAIL  
PLAN VIEW**

NTS

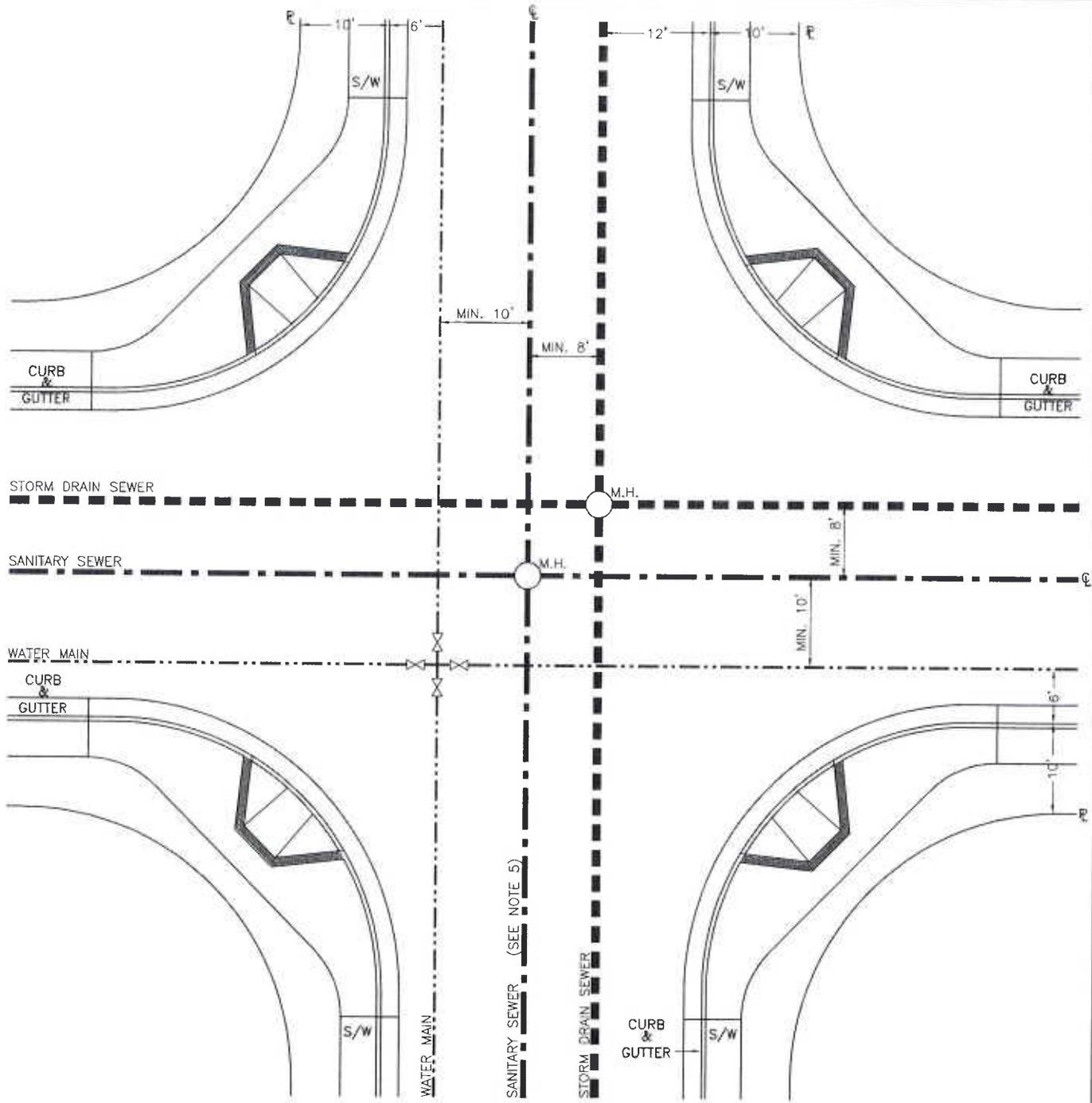
HISTORIC LIGHT STANDARD

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-71



**NOTE!**

1. THIS "STANDARD" IS A GUIDE ONLY AND DEVIATIONS WILL BE ACCEPTABLE WHERE CONDITIONS DICTATE.
2. DIMENSIONS SHOWN ARE DESIRABLE BUT DO NOT GOVERN.
3. THE INTENTION IS TO SHOW THE RELATIVE POSITION OF ALL UTILITIES.
4. ANY CHANGES OR DEVIATION MUST BE APPROVED BY THE CITY ENGINEER.
5. IN STREETS WITH A MEDIAN ISLAND THE SEWER MAIN SHALL BE LOCATED 5 FEET FROM THE MEDIAN ISLAND CURB FACE ON THE OPPOSITE SIDE OF THE STORM DRAIN PIPELINE.



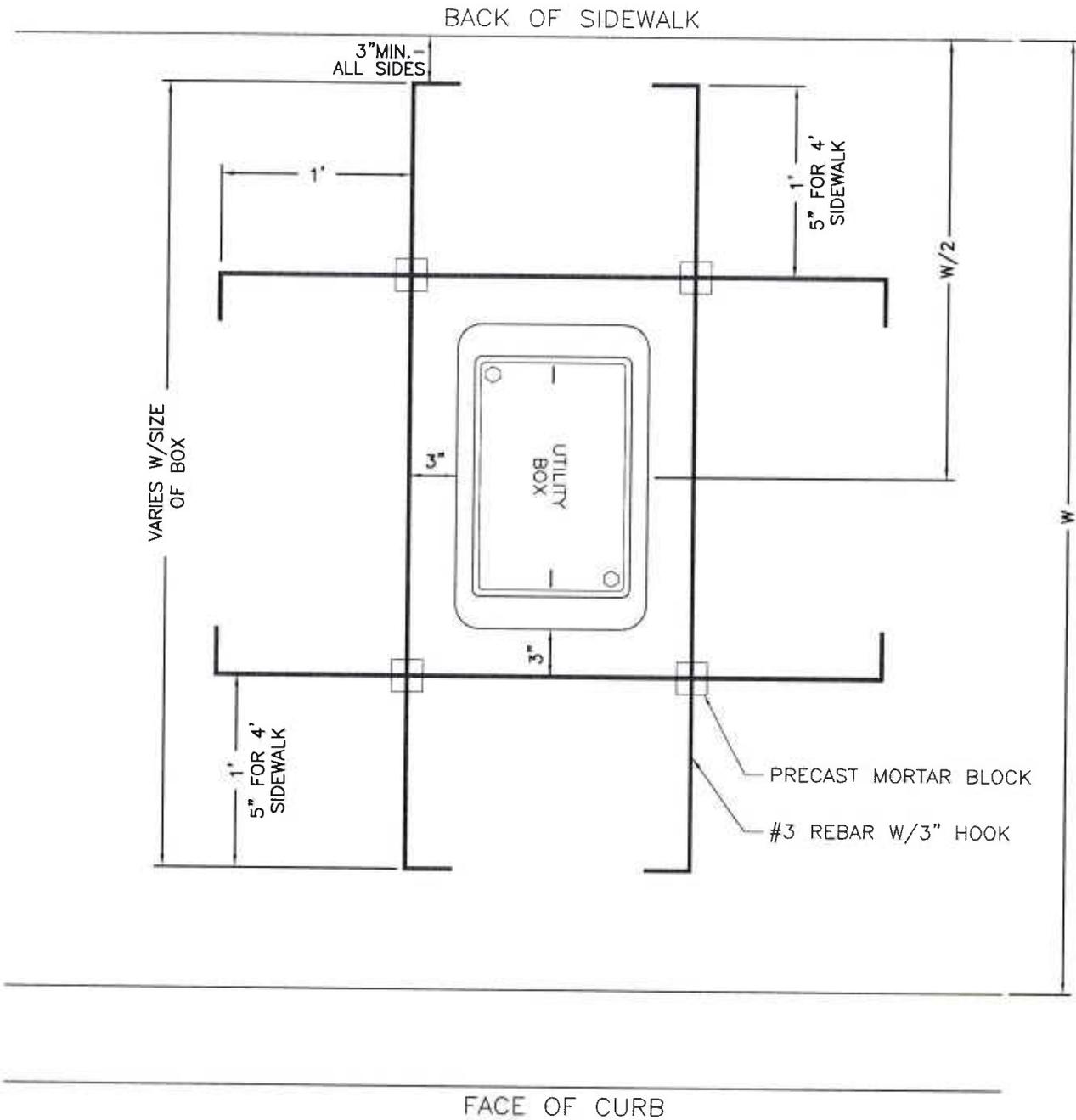
**UNDERGROUND UTILITIES  
LOCATIONS**

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-72



NOT TO SCALE

UTILITY BOX  
REINFORCEMENT DETAIL

REVISIONS:  
SEPT. 2016

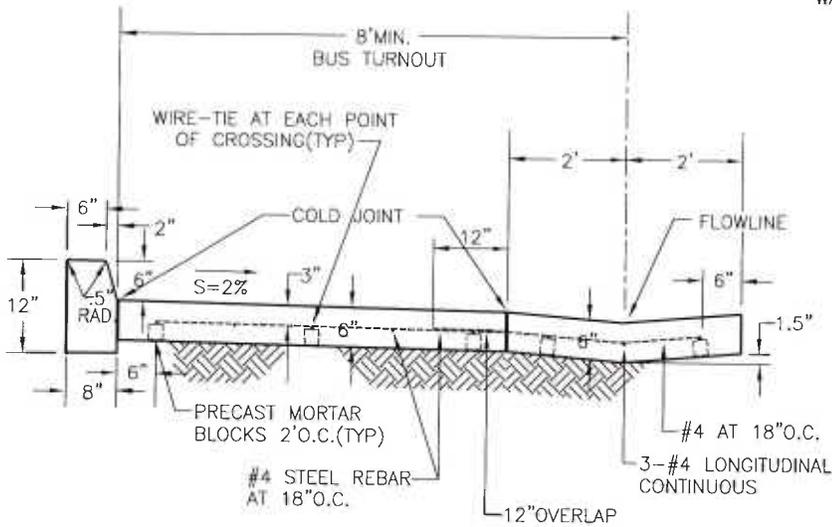
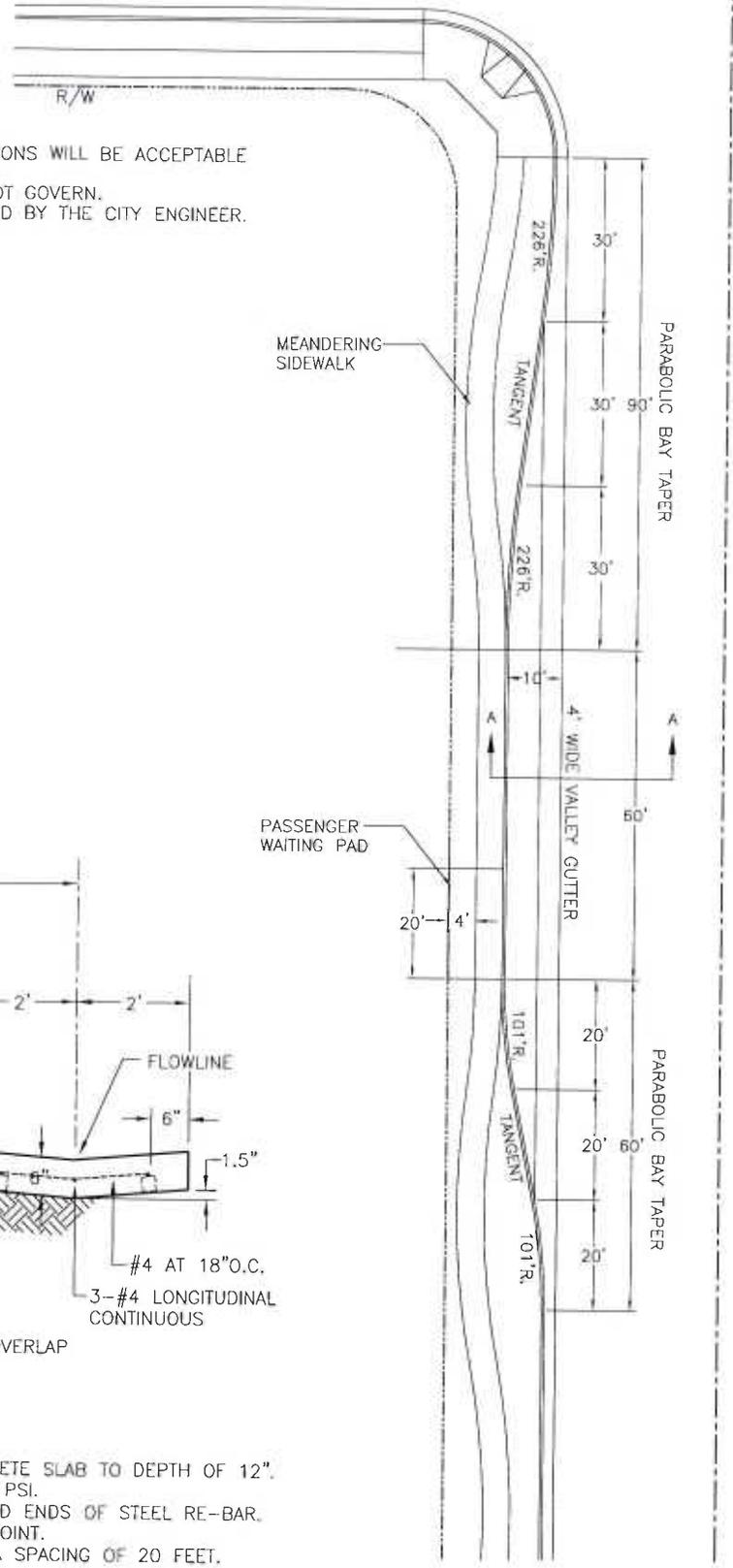
DRAWN BY: kjp

CITY OF REEDLEY

ST-73

**NOTE:**

1. THIS "STANDARD" IS A GUIDE ONLY AND DEVIATIONS WILL BE ACCEPTABLE WHERE CONDITIONS DICTATE.
2. DIMENSIONS SHOWN ARE DESIRABLE BUT DO NOT GOVERN.
3. ANY CHANGES OR DEVIATION MUST BE APPROVED BY THE CITY ENGINEER.



**SECTION A-A**

**NOTE:**

1. O.G. 95% RELATIVE COMPACTION BENEATH CONCRETE SLAB TO DEPTH OF 12".
2. CONCRETE FOR SLAB SHALL BE CLASS 'B' 3500 PSI.
3. MAINTAIN 6" CLEARANCE BETWEEN ALL JOINTS AND ENDS OF STEEL RE-BAR.
4. EXPANSION JOINTS AT EACH 60 FOOT TANGENT POINT.
5. WEAKENED PLANE JOINTS SHALL BE PLACED AT A SPACING OF 20 FEET.

NOT TO SCALE

BUS TURNOUT  
MID-BLOCK TURNOUT DESIGN  
MINIMUM OF 17'  
LANDSCAPE BUFFER

REVISIONS:  
SEPT. 2016

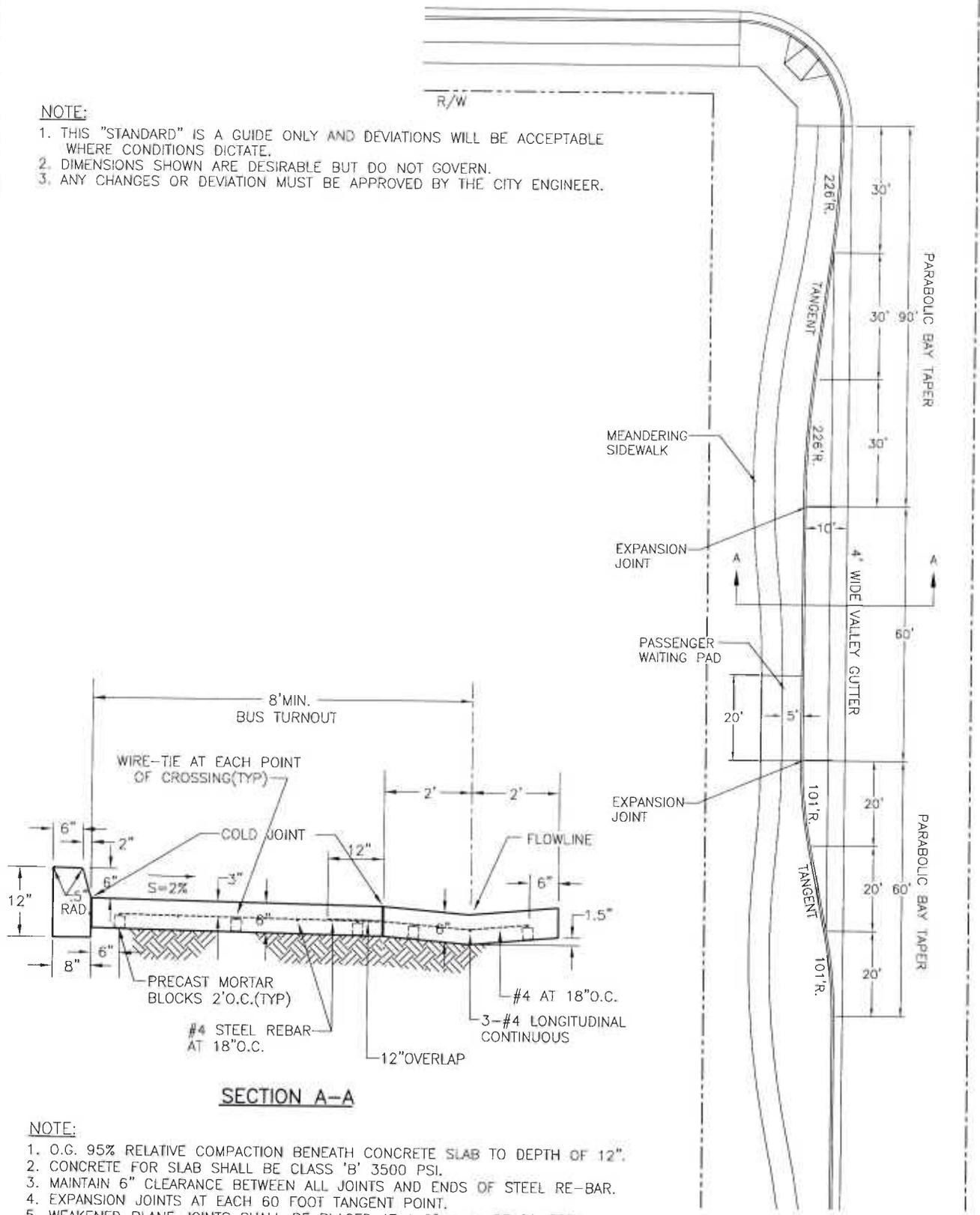
DRAWN BY: kjp

CITY OF REEDLEY

ST-74

**NOTE:**

1. THIS "STANDARD" IS A GUIDE ONLY AND DEVIATIONS WILL BE ACCEPTABLE WHERE CONDITIONS DICTATE.
2. DIMENSIONS SHOWN ARE DESIRABLE BUT DO NOT GOVERN.
3. ANY CHANGES OR DEVIATION MUST BE APPROVED BY THE CITY ENGINEER.



**SECTION A-A**

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4. EXPANSION JOINTS AT EACH 60 FOOT TANGENT POINT.
5. WEAKENED PLANE JOINTS SHALL BE PLACED AT A SPACING OF 20 FEET.

BUS TURNOUT  
 MID-BLOCK TURNOUT DESIGN  
 WITH GREATER THAN 24'  
 LANDSCAPE BUFFER

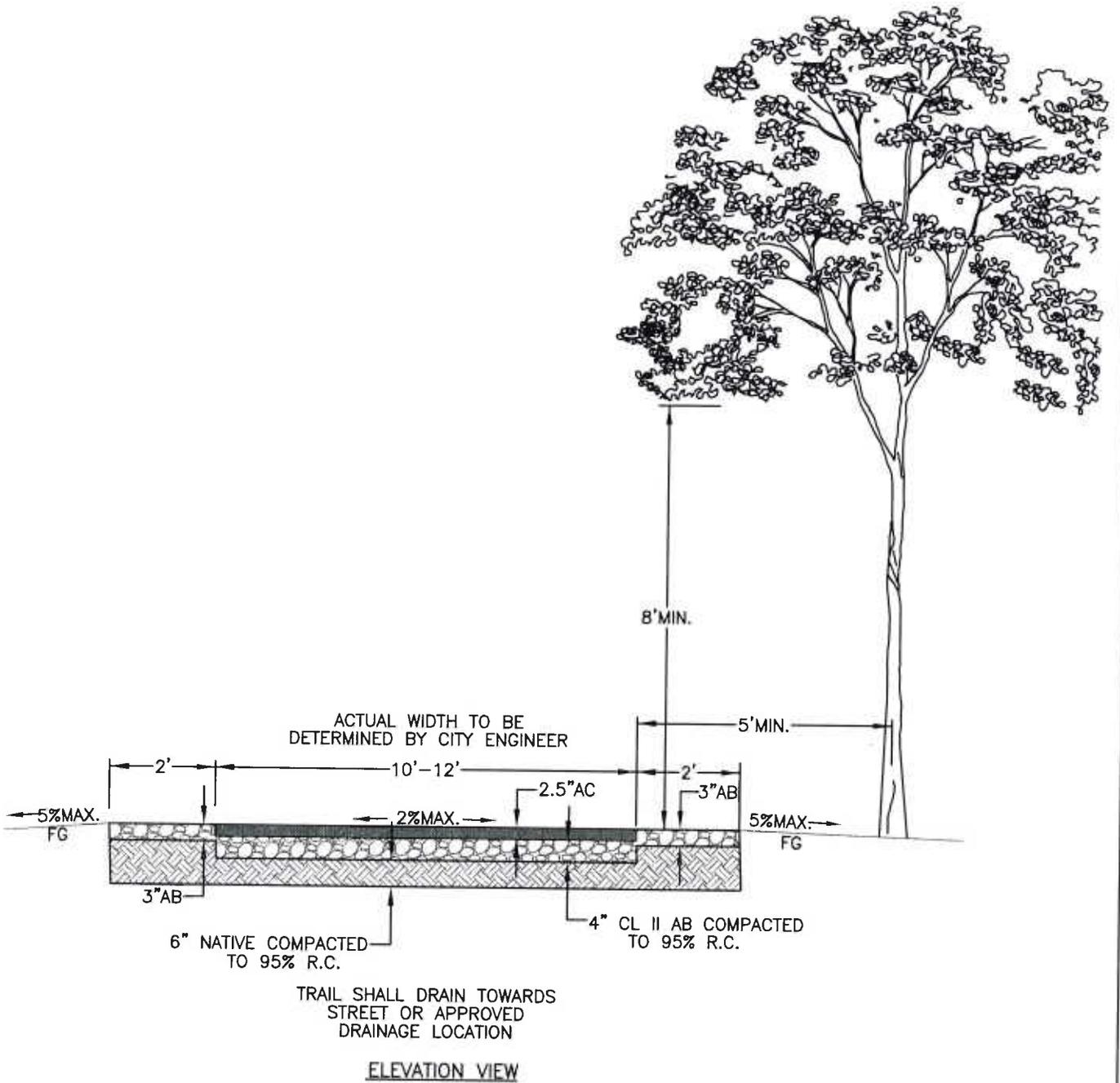
REVISIONS:  
 SEPT. 2016

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DRAWN BY: kjp

CITY OF REEDLEY

ST-75



NOTES:

1. THIS STANDARD SHALL BE USED ONLY UPON APPROVAL BY CITY ENGINEER.
2. CITY ENGINEER MAY PERMIT A CURVILINEAR DESIGN. PRECISE DATA SHALL BE PROVIDED TO STAKE THE ALIGNMENT AND SET APPROPRIATE GRADES.

NOT TO SCALE

ASPHALT  
MULTI-PURPOSE TRAIL

REVISIONS:  
SEPT. 2016

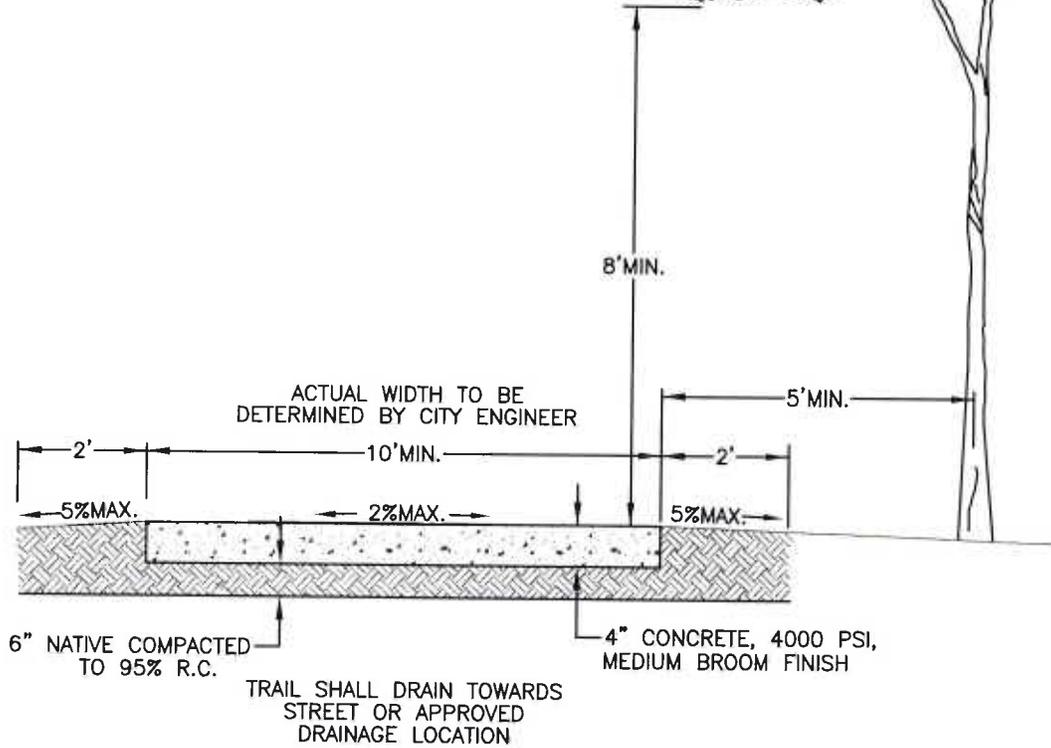
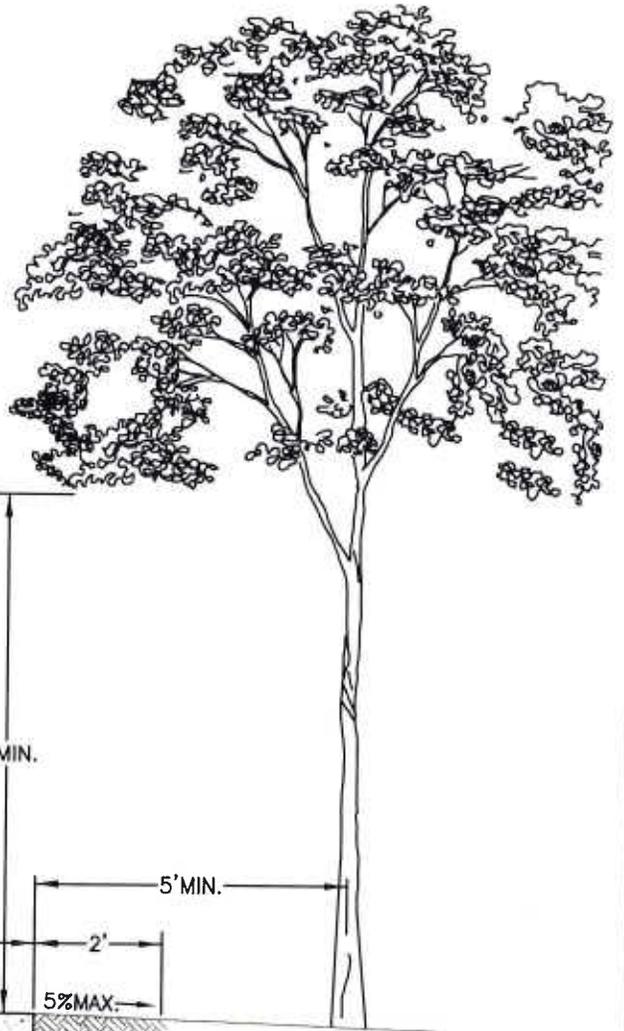
DRAWN BY: kjp

CITY OF REEDLEY

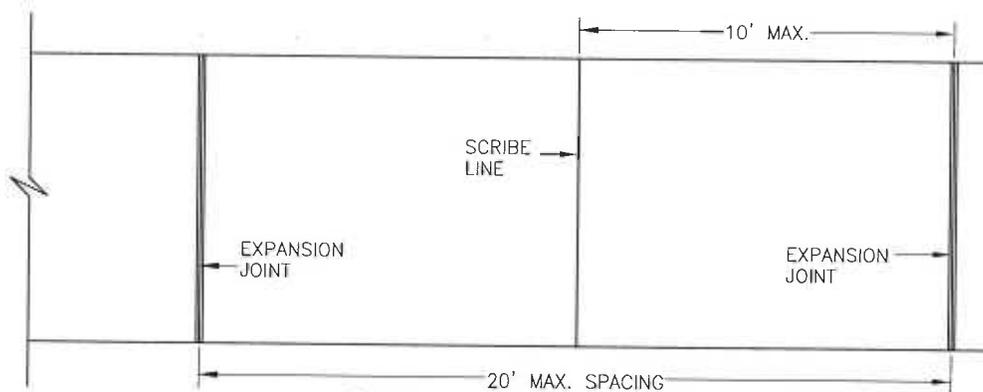
ST-76

**NOTES:**

1. THIS STANDARD SHALL BE USED ONLY UPON APPROVAL BY THE CITY ENGINEER.
2. CITY ENGINEER MAY PERMIT A CURVILINEAR DESIGN. PRECISE DATA SHALL BE PROVIDED TO STAKE THE ALIGNMENT AND SET APPROPRIATE GRADES.
3. MAXIMUM SPACE FOR EXPANSION JOINTS IS 20 FT.



**ELEVATION VIEW**



**PLAN VIEW**

NOT TO SCALE

**CONCRETE  
MULTI-PURPOSE TRAIL**

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

ST-77

**GENERAL NOTES:**

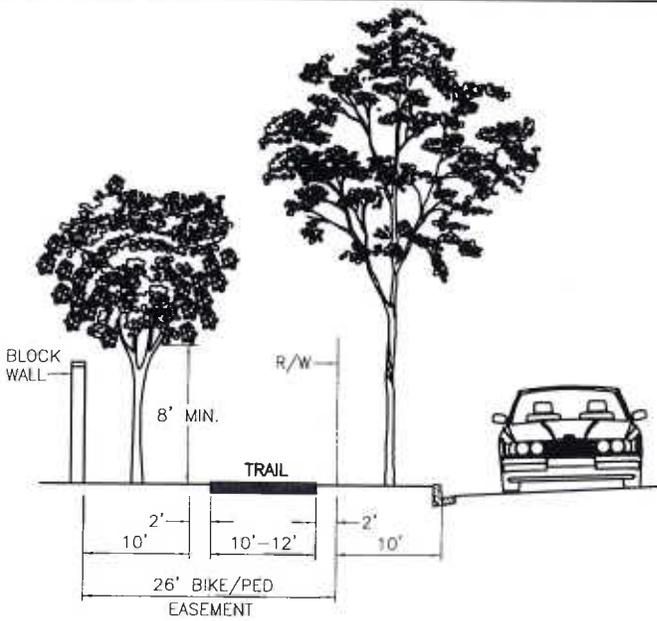
R=155' MIN. (25 mph)

EASEMENTS SHOWN ARE MINIMUMS. ADDITIONAL WIDTHS MAY BE NEEDED FOR GRADING & DRAINAGE PURPOSES.

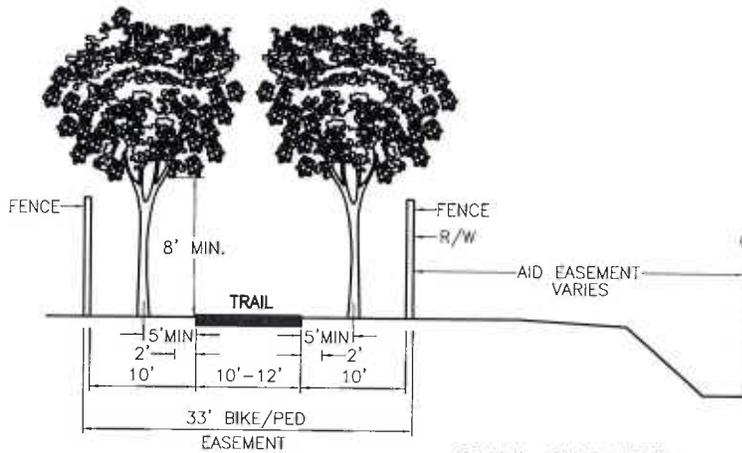
CROSS SLOPES = 2% FOR TRAIL  
2' SHOULDER

TRAIL DESIGN SHALL COMPLY WITH CHAPTER 1000 OF THE CALTRANS HIGHWAY DESIGN MANUAL.

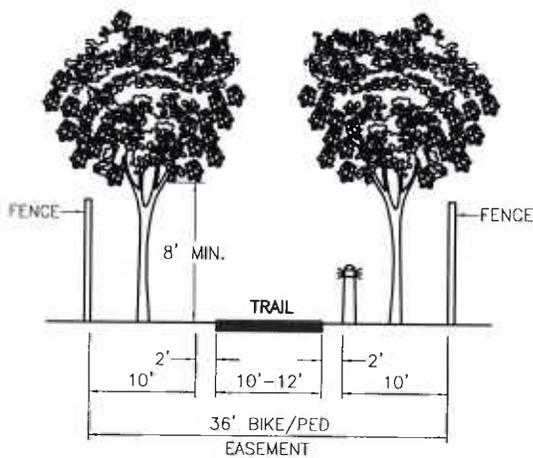
AN ADDITIONAL 12' EASEMENT REQUIRED FOR EQUESTRIAN PURPOSES.



**MAJOR STREET TRAIL**



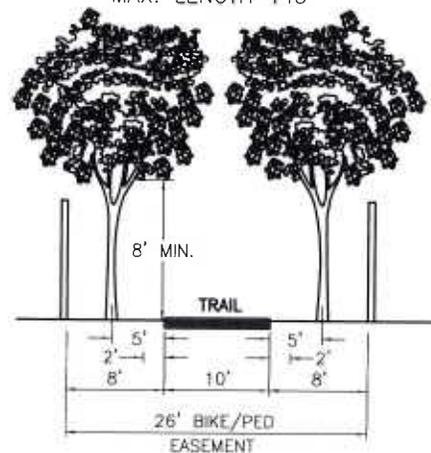
**CANAL-SIDE TRAIL**



**OFF-STREET TRAIL**

NOT TO SCALE

**NOTE:**  
MAX. LENGTH 140'



**CONNECTOR TRAIL**

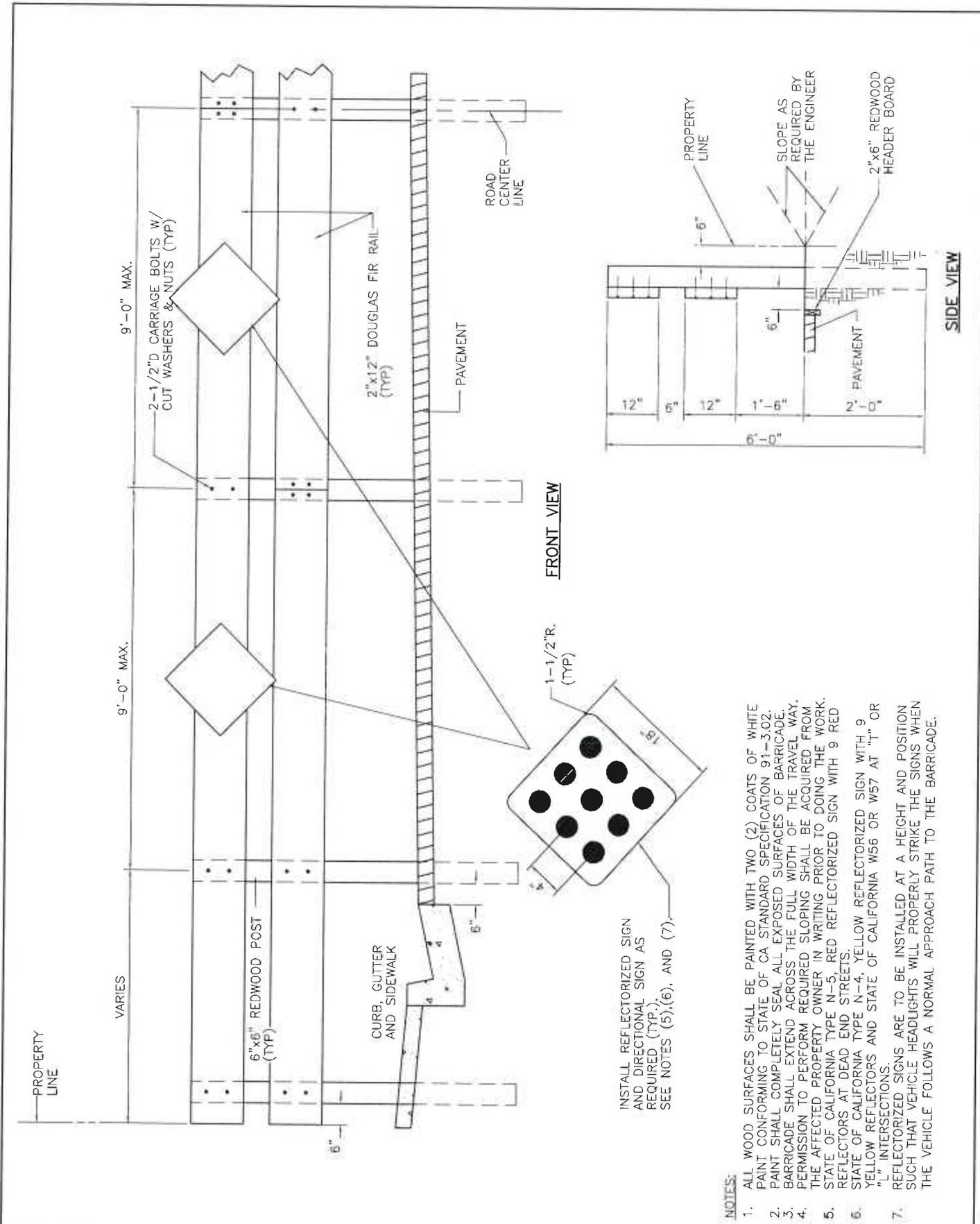
**TRAIL DETAILS**

REVISIONS:  
SEPT. 2016

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CITY OF REEDLEY

ST-78



NOT TO SCALE

# TEMPORARY TIMBER BARRICADE

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SEPT. 2016

DRAWN BY: kjp

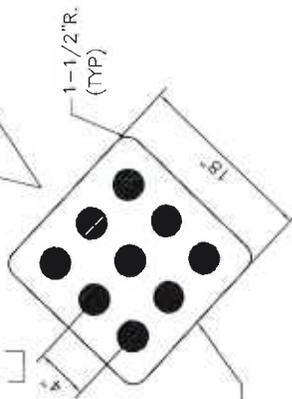
CITY OF REEDLEY

ST-79

**NOTES:**

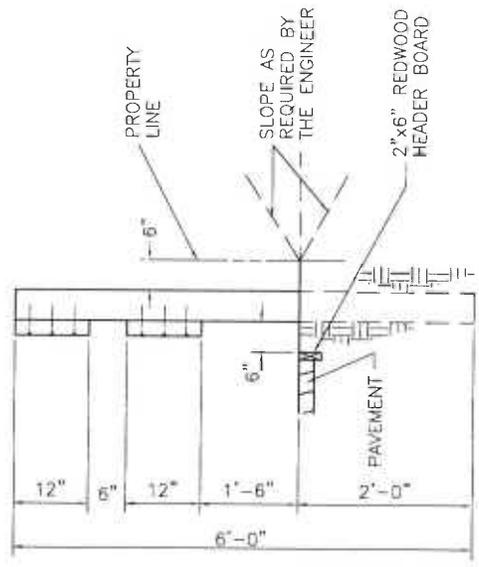
1. ALL WOOD SURFACES SHALL BE PAINTED WITH TWO (2) COATS OF WHITE PAINT CONFORMING TO STATE OF CA STANDARD SPECIFICATION 91-3.02. PAINT SHALL COMPLETELY SEAL ALL EXPOSED SURFACES OF BARRICADE.
2. BARRICADE SHALL EXTEND ACROSS THE FULL WIDTH OF THE TRAVEL WAY. PERMISSION TO PERFORM REQUIRED SLOPING SHALL BE ACQUIRED FROM THE AFFECTED PROPERTY OWNER IN WRITING PRIOR TO DOING THE WORK.
3. STATE OF CALIFORNIA TYPE N-5, RED REFLECTORIZED SIGN WITH 9 RED REFLECTORS AT DEAD END STREETS.
4. STATE OF CALIFORNIA TYPE N-4, YELLOW REFLECTORIZED SIGN WITH 9 YELLOW REFLECTORS AND STATE OF CALIFORNIA W56 OR W57 AT "T" OR "L" INTERSECTIONS.
5. REFLECTORIZED SIGNS ARE TO BE INSTALLED AT A HEIGHT AND POSITION SUCH THAT VEHICLE HEADLIGHTS WILL PROPERLY STRIKE THE SIGNS WHEN THE VEHICLE FOLLOWS A NORMAL APPROACH PATH TO THE BARRICADE.

INSTALL REFLECTORIZED SIGN AND DIRECTIONAL SIGN AS REQUIRED (TYP.). SEE NOTES (5),(6), AND (7).



**FRONT VIEW**

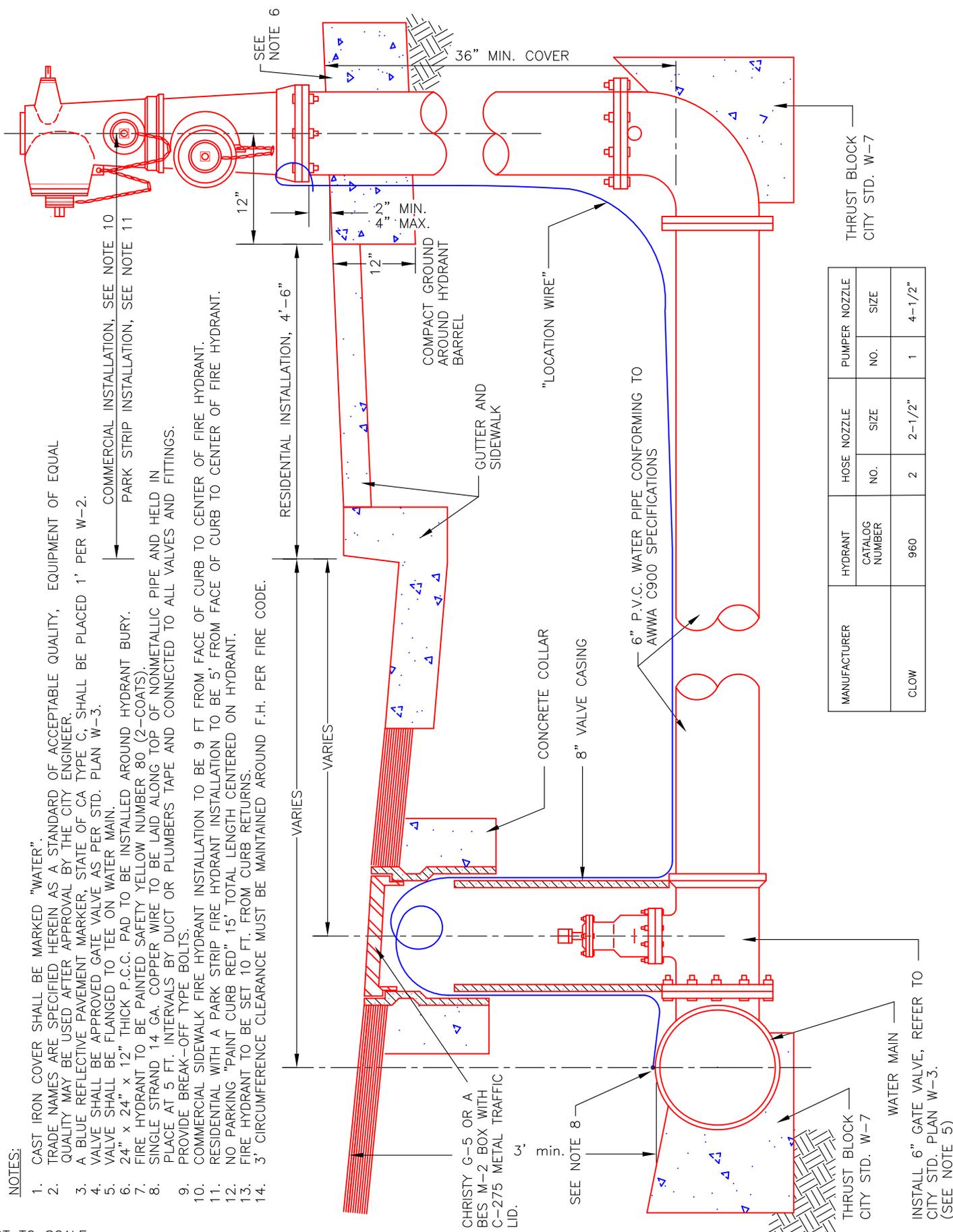
**SIDE VIEW**



**NOTES:**

1. CAST IRON COVER SHALL BE MARKED "WATER".
2. TRADE NAMES ARE SPECIFIED HEREIN AS A STANDARD OF ACCEPTABLE QUALITY, EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
3. A BLUE REFLECTIVE PAVEMENT MARKER, STATE OF CA TYPE C, SHALL BE PLACED 1' PER W-2.
4. VALVE SHALL BE APPROVED GATE VALVE AS PER STD. PLAN W-3.
5. VALVE SHALL BE FLANGED TO TEE ON WATER MAIN.
6. 24" x 24" x 12" THICK P.C.C. PAD TO BE INSTALLED AROUND HYDRANT BURY.
7. FIRE HYDRANT TO BE PAINTED SAFETY YELLOW NUMBER 80 (2-COATS).
8. SINGLE STRAND 14 GA. COPPER WIRE TO BE LAID ALONG TOP OF NONMETALLIC PIPE AND HELD IN PLACE AT 5 FT. INTERVALS BY DUCT OR PLUMBERS TAPE AND CONNECTED TO ALL VALVES AND FITTINGS. PROVIDE BREAK-OFF TYPE BOLTS.
9. COMMERCIAL SIDEWALK FIRE HYDRANT INSTALLATION TO BE 9 FT FROM FACE OF CURB TO CENTER OF FIRE HYDRANT.
10. RESIDENTIAL WITH A PARK STRIP FIRE HYDRANT INSTALLATION TO BE 5' FROM FACE OF CURB TO CENTER OF FIRE HYDRANT.
11. NO PARKING "PAINT CURB RED" 15' TOTAL LENGTH CENTERED ON HYDRANT.
12. FIRE HYDRANT TO BE SET 10 FT. FROM CURB RETURNS.
13. 3' CIRCUMFERENCE CLEARANCE MUST BE MAINTAINED AROUND F.H. PER FIRE CODE.

COMMERCIAL INSTALLATION, SEE NOTE 10  
 PARK STRIP INSTALLATION, SEE NOTE 11



MANUFACTURER	HYDRANT CATALOG NUMBER	HOSE NOZZLE		PUMPER NOZZLE	
		NO.	SIZE	NO.	SIZE
CLOW	960	2	2-1/2"	1	4-1/2"

THRUST BLOCK CITY STD. W-7

INSTALL 6" GATE VALVE, REFER TO CITY STD. PLAN W-3. (SEE NOTE 5)

NOT TO SCALE

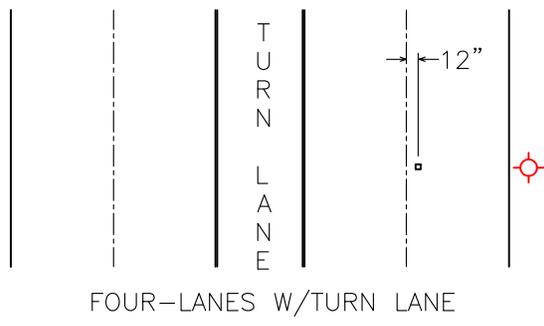
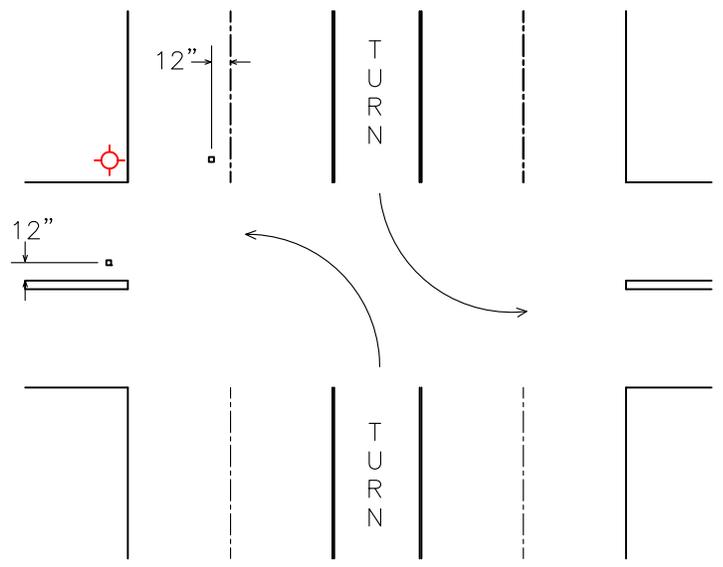
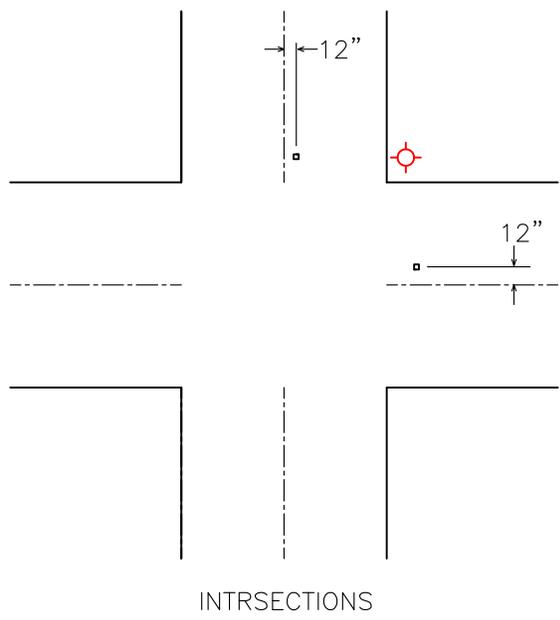
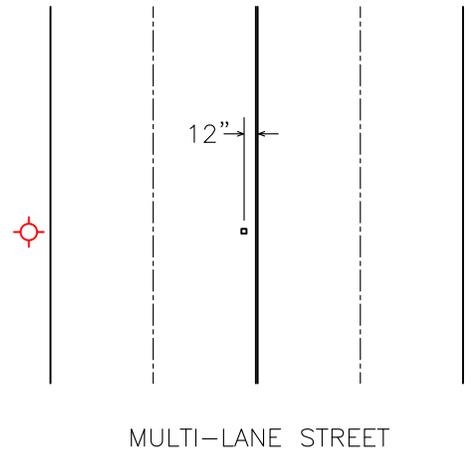
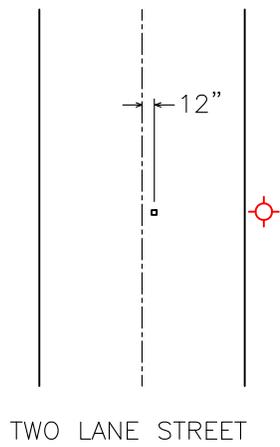
**(WET BARREL)  
 FIRE HYDRANT  
 ASSEMBLY**

REVISIONS:  
 NOV. 2015

DRAWN BY: kjp

CITY OF REEDLEY

W-1



- FIRE HYDRANT
- PAVEMENT MARKER EQUAL TO STIMSONITE 810134-88AB "TWO WAY" BLUE

NOT TO SCALE

TYPICAL FIRE HYDRANT MARKER LOCATIONS

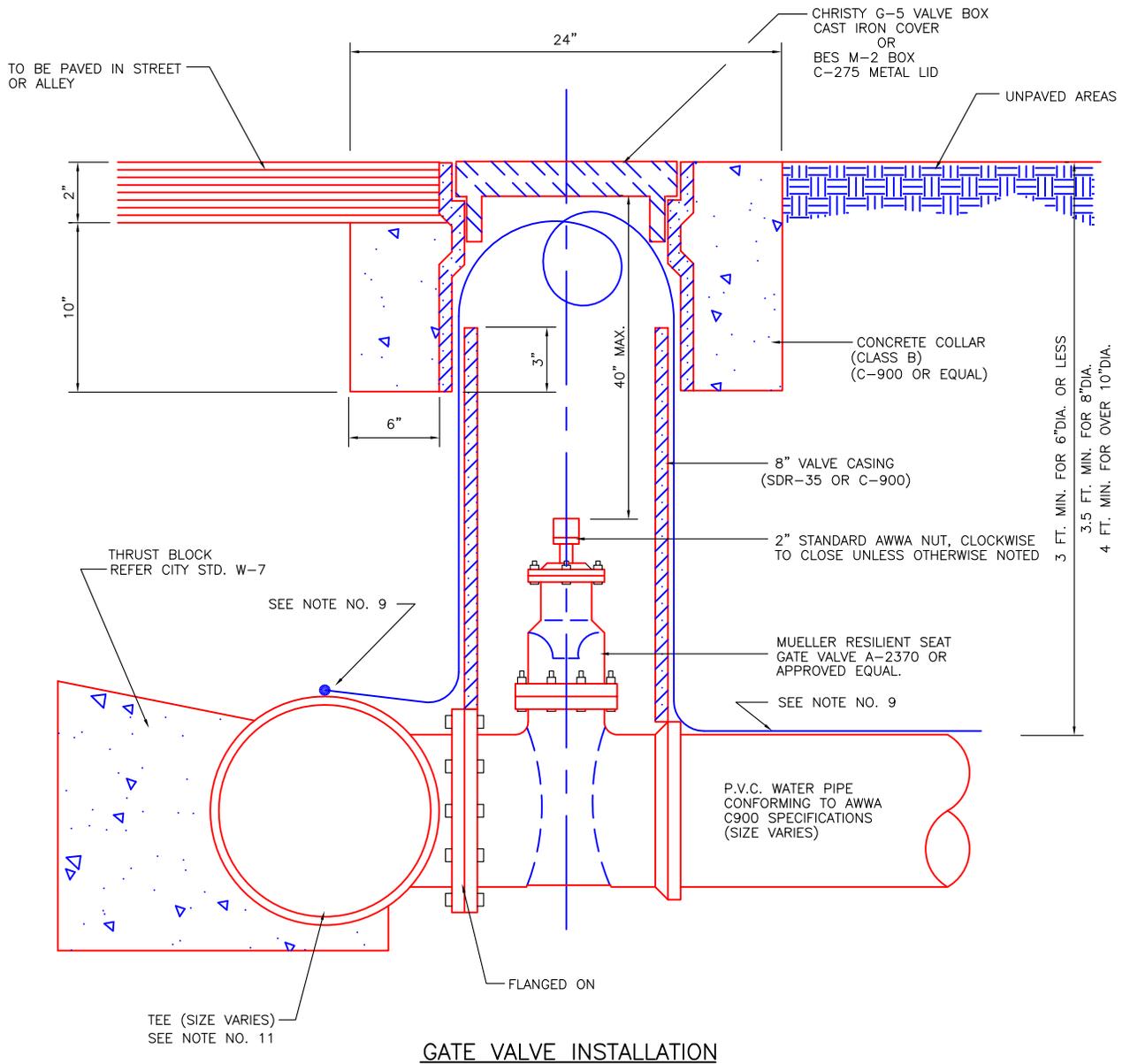
REVISIONS:  
NOV. 2015

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DRAWN BY: kjp

CITY OF REEDLEY

W-2



**NOTES:**

1. CAST IRON COVER SHALL BE LABELED "WATER".
2. FULL DEPTH COLLAR SHALL BE INSTALLED IN DIRT AREAS ONLY.
3. VALVE CASING MAY BE POLY (VINYL CHLORIDE) PIPE, SDR 35.
4. VALVE FITTINGS SHALL BE FLANGED OR A.C. FITTINGS AS SPECIFIED ON THE PLANS.
5. NOMINAL DIAMETER OF VALVE SHALL EQUAL NOMINAL DIAMETER OF PIPE.
6. VALVE BOX SHALL BE CLEANED AND THE OPERATOR NUT VISIBLE AND OPERATIONAL PRIOR TO ACCEPTANCE OF WORK.
7. TRADE NAMES ARE SPECIFIED HEREIN AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
8. IF DISTANCE FROM THE VALVE BOX COVER TO THE OPERATING NUT EXCEEDS 40 INCHES AN APPROVED EXTENSION MAST SHALL BE INSTALLED.
9. SINGLE STRAND 14 GAUGE COPPER WIRE TO BE LAID ALONG TOP OF NON-METALLIC PIPE AND HELD IN PLACE AT 5 FOOT INTERVALS BY DUCT OR PLUMBERS TAPE AND CONNECTED TO ALL VALVES AND FITTINGS.
10. STAINLESS STEEL MECHANICAL JOINT TAPPING SLEEVE MAY BE USED WITH EXISTING INSTALLATION AFTER APPROVAL BY THE CITY ENGINEER.
11. MECHANICAL FLANGE TEE AT THESE LOCATIONS.

NOT TO SCALE

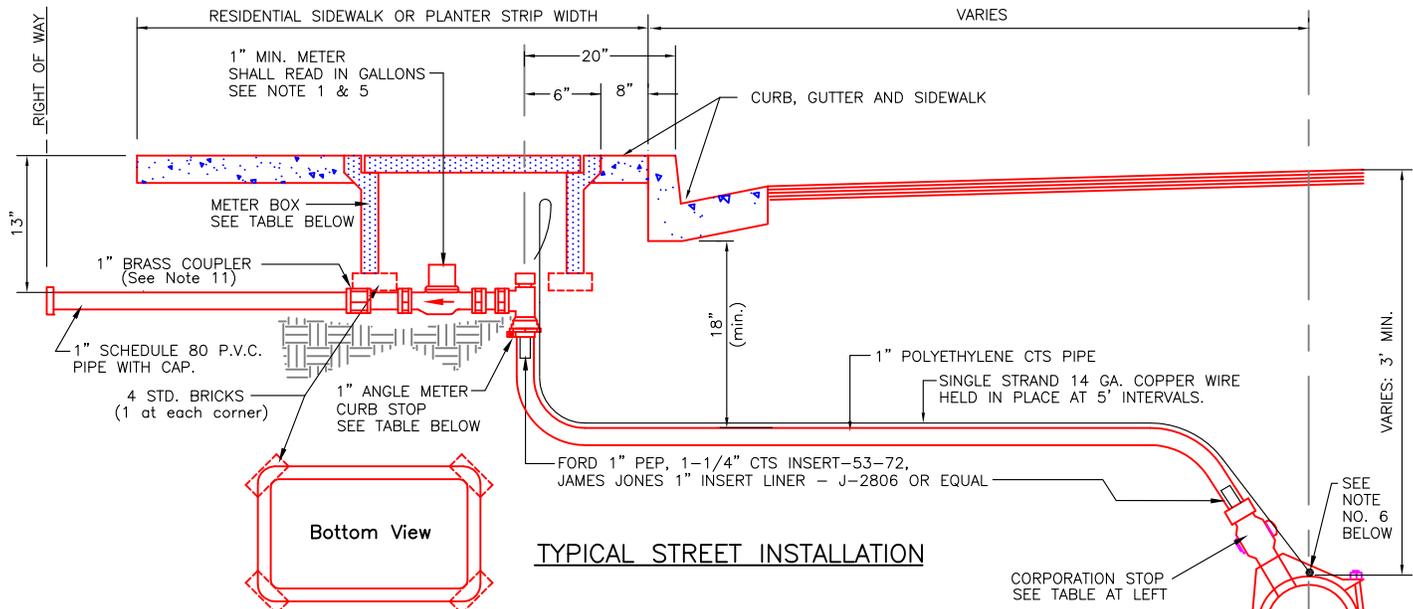
GATE VALVE

REVISIONS:  
NOV. 2015

DRAWN BY: kjp

CITY OF REEDLEY

W-3



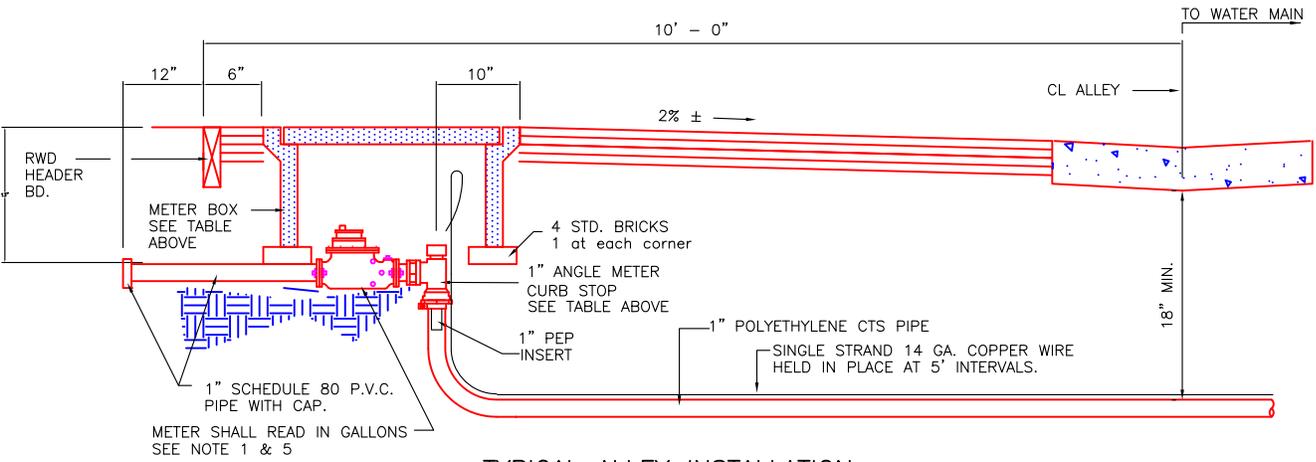
**TYPICAL STREET INSTALLATION**

MANUFACTURER	CURB STOP	CORPORATION STOP
JAMES JONES	J - 1927W	J - 3403

WATER MAIN	MANUFACTURER	SERVICE SADDLE
ASBESTOS CEMENT PIPE (EXISTING)	JAMES JONES	J - 940
	SMITH-BLAIR	311
ASTM C900 PVC PIPE	ROMAX	1015
	SMITH-BLAIR	315
	JAMES JONES	J-996R w/ I.P. THREADS

NON-TRAFFIC AREAS		
MANUFACTURER	METER BOX	LID
CHRISTY	B 16 D	D30
BES	C-16-W	C16D

TRAFFIC AREAS AND DRIVEWAYS		
MANUFACTURER	METER BOX	LID
CHRISTY	B 16 C	C30
BES	C-16-W	C16C



**TYPICAL ALLEY INSTALLATION**

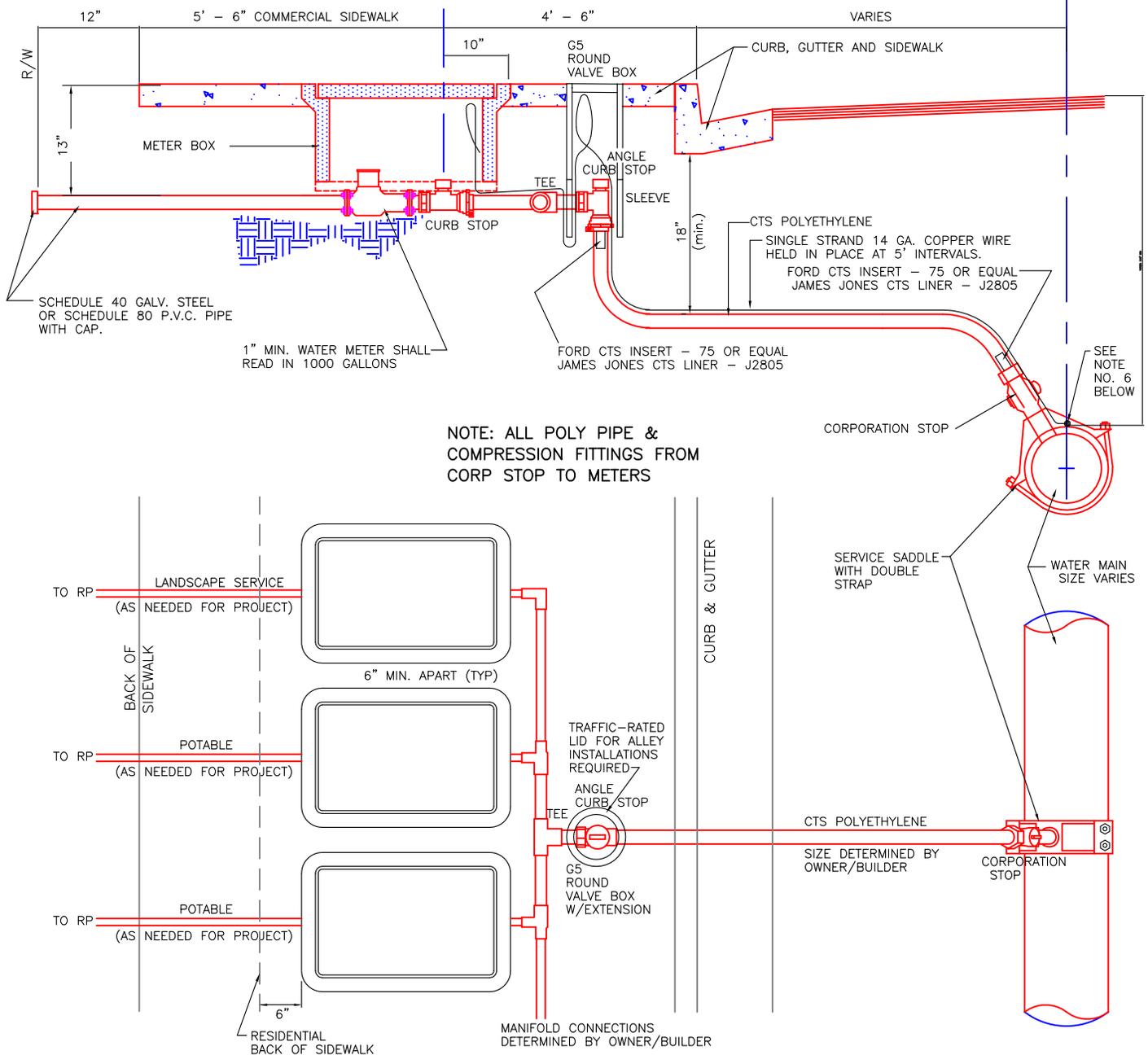
**NOTES:**

1. METERS SHALL BE PURCHASED FROM THE CITY OF REEDLEY.
2. VALVE BOXES SHALL BE BROUGHT TO PROPER GRADE PRIOR TO ACCEPTANCE OF WORK.
3. THE INSIDE OF THE VALVE BOXES SHALL BE CLEANED SUCH THAT THE METER, METER STOPS ARE ACCESSIBLE AND OPERATIONAL PRIOR TO THE ACCEPTANCE OF THE WORK. DIRT & DEBRIS SHALL BE REMOVED 2" BELOW WATER METER.
4. TRADE NAMES ARE SPECIFIED AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
5. NO GALVANIZED PIPE FITTINGS ARE TO BE USED IN METER ASSEMBLY INSTALLATION.
6. SINGLE STRAND 14 GAUGE COPPER WIRE TO BE LAID ALONG TOP OF NON-METALLIC PIPE AND HELD IN PLACE AT 5 FT. INTERVALS BY DUCT OR PLUMBERS TAPE AND CONNECTED TO ALL VALVES AND FITTINGS.
7. IN A RESIDENTIAL SUBDIVISION THE WATER SERVICE ASSEMBLY SHALL BE LOCATED AT THE CENTER OF THE LOT.
8. NO PLUMBING PUTTY ALLOWED ON ANY FITTING.
9. TOP OF METER MUST BE AT LEAST 5" BELOW BOTTOM OF METER BOX LID.
10. THE CITY'S RESPONSIBILITY FOR A WATER SERVICE ENDS AT THE WATER METER COUPLING. THE CITY IS NOT RESPONSIBLE FOR THE CUSTOMER SHUT-OFF VALVE, OTHER VALVES OR PIPING LOCATED ON THE CUSTOMER'S SIDE OF THE METER.

NOT TO SCALE

<p><b>ONE INCH WATER SERVICE &amp; ASSEMBLY STREET/ALLEY INSTALLATION</b></p>	<p>REVISIONS: NOV. 2015</p>	<p>CITY OF REEDLEY</p>
		<p>W-4</p>
		<p>DRAWN BY: kjp</p>





1. METERS SHALL BE PURCHASED FROM THE CITY OF REEDLEY.
2. VALVE BOXES SHALL BE BROUGHT TO PROPER GRADE PRIOR TO ACCEPTANCE OF WORK.
3. THE INSIDE OF THE VALVE BOXES SHALL BE CLEANED SUCH THAT THE METER, METER STOPS ARE ACCESSIBLE AND OPERATIONAL PRIOR TO THE ACCEPTANCE OF THE WORK.
4. TRADE NAMES ARE SPECIFIED HEREIN AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
5. DIELECTRIC FITTING REQUIRED BETWEEN CURB STOP AND GALVANIZED STEEL PIPE HOUSE SERVICE.
6. SINGLE STRAND 14 GAUGE COPPER WIRE TO BE LAID ALONG TOP OF NON-METALLIC PIPE AND HELD IN PLACE AT 5 FT. INTERVALS BY DUCT OR PLUMBERS TAPE AND CONNECTED TO ALL VALVES AND FITTINGS.
7. NO PLUMBING PUTTY ALLOWED ON ANY FITTING.
8. FOR 2" METERS OR LARGER, RADIO TRANSMITTER SHALL BE MOUNTED (LABEL SIDE FACING UP) INSIDE METER BOX, ON A 3/4" X 24" SCH. 40 PVC STAKE.
9. MANIFOLDS ACCOMMODATING 2" OR LARGER METERS MUST BE APPROVED BY CITY ENGINEER.

NOT TO SCALE

<h2 style="margin: 0;">WATER SERVICE MANIFOLD ASSEMBLY</h2>	<p>REVISIONS: NOV. 2015</p>	<h1 style="margin: 0;">CITY OF REEDLEY</h1> <h2 style="margin: 0;">W-6</h2>
<p>DRAWN BY: kjp</p>		

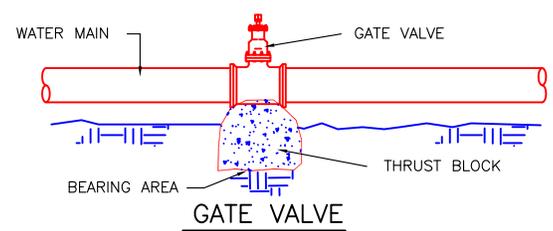
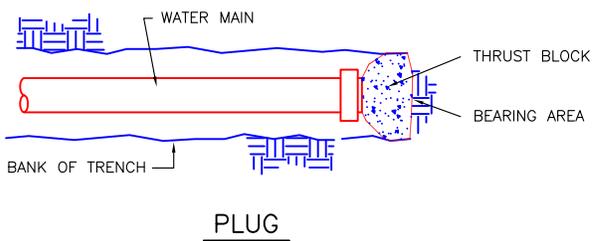
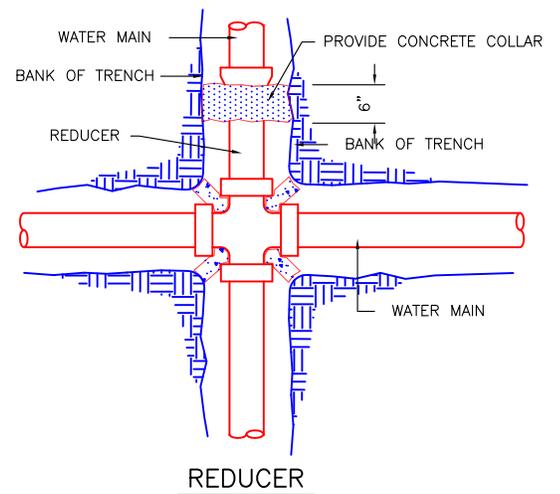
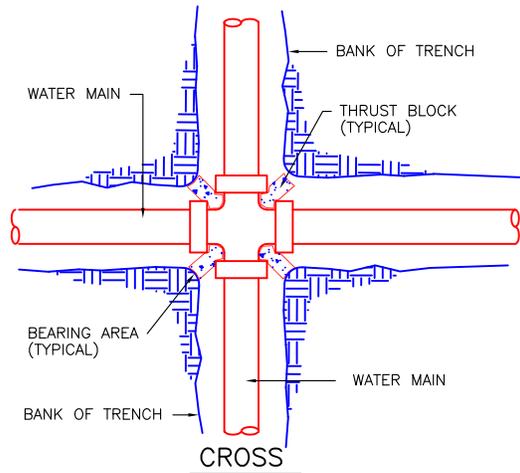
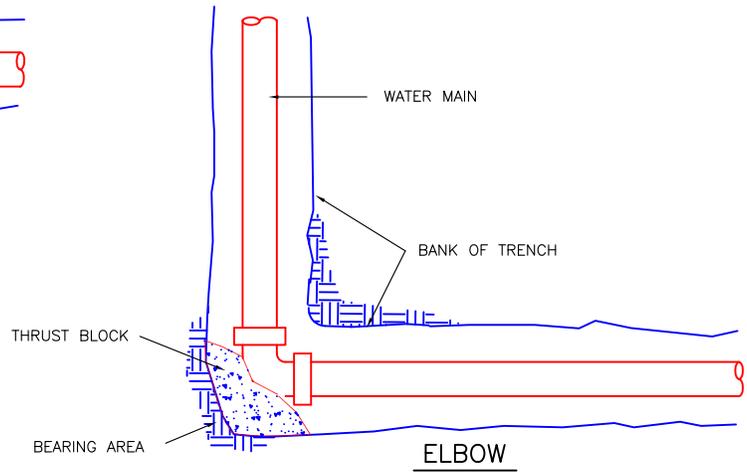
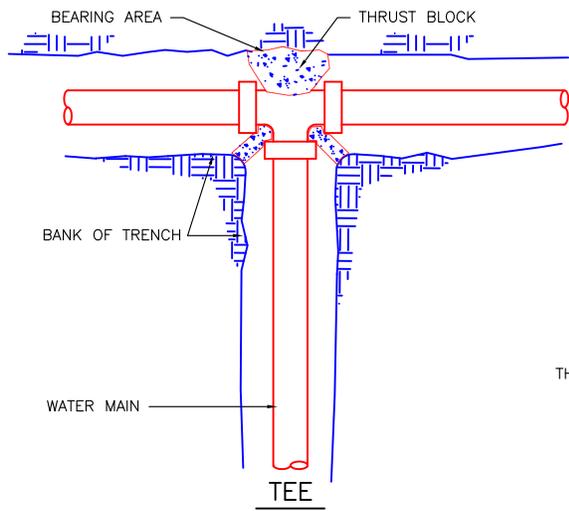


TABLE OF BEARING AREAS\* REQUIRED (IN SQUARE FEET)

PIPE DIAMETER	6"	8"	10"	12"
CROSS TEE ELBOW PLUG FIRE HYDRANT	3	5	8	11
90° BEND	4	7	12	16
45° BEND	2	3	5	6
22.5° BEND	1	2	3	3
VALVE	0	0	0	9
TEE OR PLUG	3	5	8	12
CROSS W/PLUG	4	7	12	16

\* AREAS GIVEN FOR CLASS 150 PIPE OF PRESSURE OF 150 P.S.I. IN SOIL WITH 2,000 P.S.F. CAPACITY. INSTALLATION USING DIFFERENT PIPE, TEST PRESSURE, AND/OR SOIL TYPES SHOULD ADJUST AREAS ACCORDINGLY, SUBJECT TO APPROVAL OF CITY ENGINEER.

NOTES:

- ENGINEER TO COMPUTE BEARING AREAS FOR CASES NOT COVERED HEREIN.
- CONCRETE FOR THRUST BLOCKS SHALL BE CLASS "B" CONCRETE (5 SACK MINIMUM.)
- MINIMUM THICKNESS OF THRUST BLOCKS TO BE 6 INCHES.
- THRUST BLOCK TO BE POURED AGAINST UNDISTURBED SOIL.
- THRUST BLOCKS SHALL BE POURED A MINIMUM OF 5 DAYS BEFORE PRESSURIZING THE SYSTEM.

NOT TO SCALE

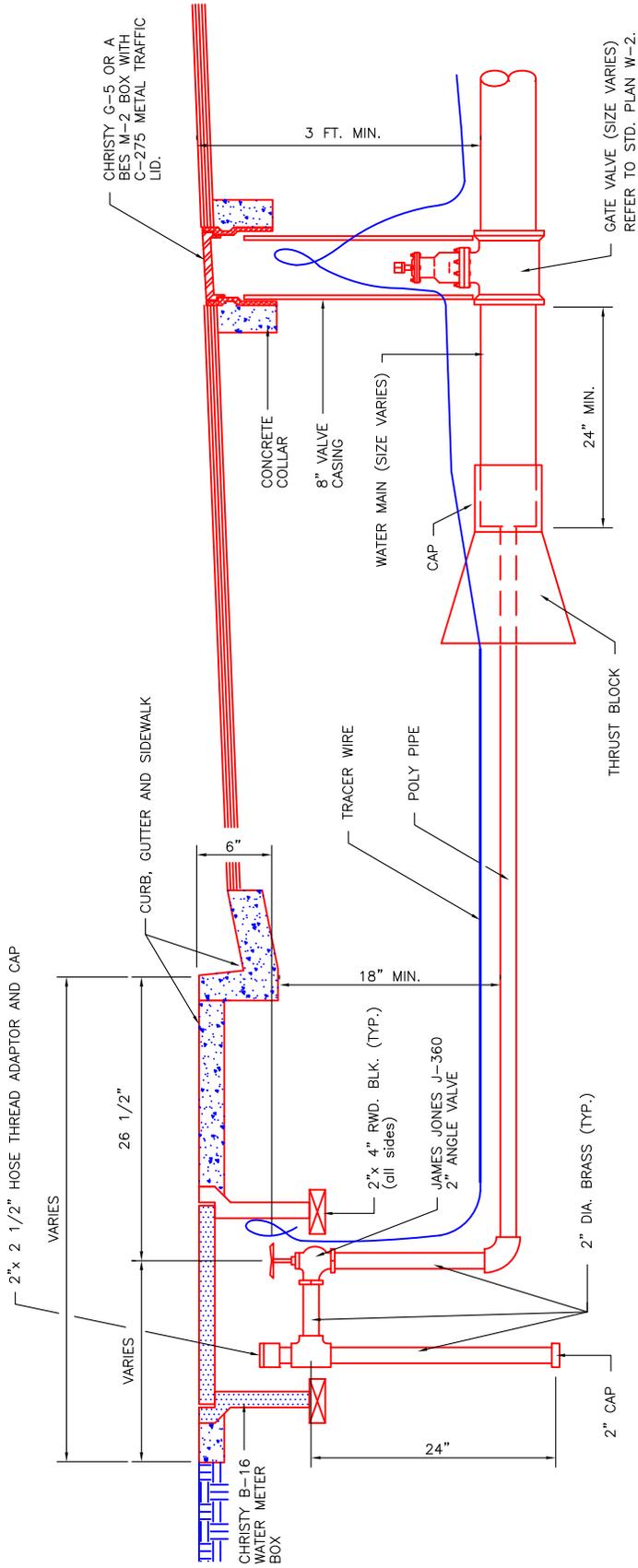
CONCRETE THRUST BLOCKS

REVISIONS:  
NOV. 2015

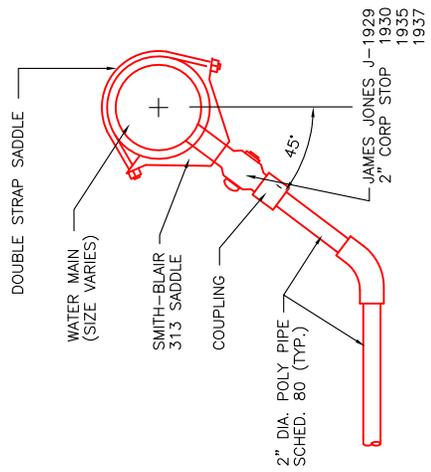
DRAWN BY: kjp

CITY OF REEDLEY

W-7



TYPICAL INSTALLATION



ALTERNATE CONNECTION DETAIL  
nts

NOTES:

1. ALTERNATE CONNECTION TO BE INSTALLED ONLY WHEN ALLOWED IN THE SPECIAL PROVISION BY THE CITY ENGINEER.
2. THE 2" PIPE ENCASED WITH THE CONCRETE THRUST BLOCK SHALL BE PAINTED WITH RUST RESISTANT PAINT AND WRAPPED WITH PLASTIC TAPE TO A THICKNESS OF 20 MILLS.
3. WATER VALVE CASING AND VALVE BOX AND LID SHALL BE INCLUDED IN ASSEMBLY WHEN INSTALLED AS A TYPICAL INSTALLATION.
4. NO SERVICE SHALL BE LOCATED BETWEEN WATER VALVE AND THE END OF THE WATER MAIN.
5. BLOW-OFF NOT ALLOWED ON CUL-DE-SAC.
6. P.V.C. WATER MAIN SHALL CONFORM TO AWWA C900 SPECIFICATIONS.
7. VALVE BOXES SHALL BE BROUGHT TO PROPER GRADE PRIOR TO ACCEPTANCE OF WORK.

NOT TO SCALE

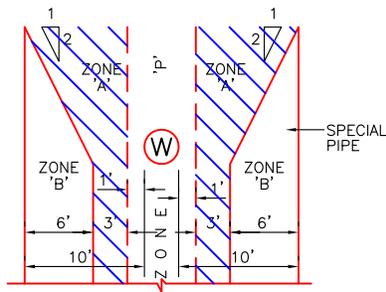
2" BLOW-OFF ASSEMBLY

REVISIONS:  
NOV. 2015

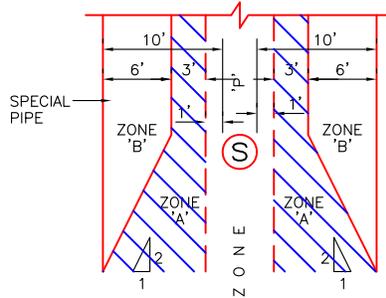
DRAWN BY: kjp

CITY OF REEDLEY

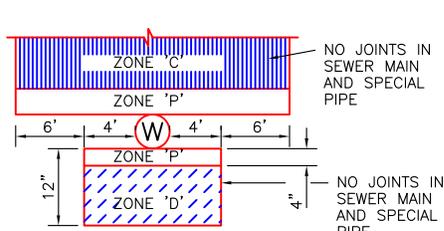
W-8



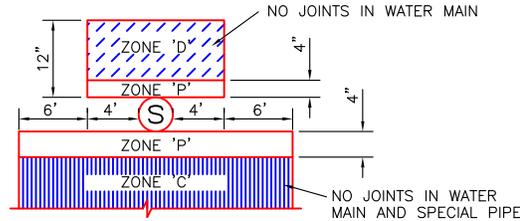
CASE - 1  
PARALLEL CONSTRUCTION



CASE - 2  
PARALLEL CONSTRUCTION



CASE - 1  
PERPENDICULAR CONSTRUCTION



CASE - 2  
PERPENDICULAR CONSTRUCTION

**SITUATIONS ENCOUNTERED**

CASE-1 NEW SEWER LINE, NEW OR EXISTING WATER MAIN.

CASE-2 NEW WATER MAIN, EXISTING SEWER LINE.

FOR CASE-1, THE ALTERNATE CONSTRUCTION CRITERIA APPLY TO THE SEWER LINE.

FOR CASE-2, THE ALTERNATE CONSTRUCTION CRITERIA MAY APPLY TO EITHER OR BOTH THE WATER MAIN OR SEWER LINE.

**SPECIAL CONSTRUCTION REQUIREMENTS**

CASE 1: NEW SEWER BEING INSTALLED – NEW OR EXISTING WATER MAIN

IF A NEW SEWER IS CONSTRUCTED WITHIN ZONE A, B, C, OR D OF A PROPOSED OR EXISTING WATER MAIN, THE FOLLOWING SPECIAL REQUIREMENTS WILL APPLY FOR THE SEWER.

ZONE	SPECIAL REQUIREMENTS
A	SEWER LINES WILL NOT BE PERMITTED IN THIS ZONE WITHOUT SPECIAL PERMISSION FROM THE DEPARTMENT OF HEALTH.
B	A SEWER LINE PLACED PARALLEL TO A WATER MAIN SHALL BE CONSTRUCTED OF EXTRA-STRENGTH VITRIFIED CLAY PIPE WITH COMPRESSION JOINTS; OR CLASS 4000, TYPE II ASBESTOS-CEMENT PIPE WITH RUBBER GASKET JOINTS; OR POLY(VINYL CHLORIDE) PIPE WITH RUBBER RING JOINTS; OR REINFORCED CONCRETE PRESSURE PIPE WITH REINFORCED CONCRETE COLLARS AROUND THE JOINTS WHICH COLLARS SHALL HAVE A MINIMUM THICKNESS OF 6" AND A MINIMUM LENGTH ALONG THE PIPE OF 6" ON EITHER SIDE OF THE JOINT; OR CAST IRON PIPE WITH COMPRESSION JOINTS.
C or D	A SEWER LINE CROSSING A WATER MAIN SHALL BE CONSTRUCTED OF CLASS 150 OR STRONGER CAST IRON PIPE WITH HOT DIP BITUMINOUS COATING AND APPROVED MECHANICAL JOINTS; OR A CONTINUOUS SECTION OF CLASS 200 POLY(VINYL CHLORIDE) PIPE; OR REINFORCED CONCRETE PRESSURE PIPE CENTERED OVER THE PIPE BEING CROSSED; OR ANY SEWER PIPE ENCASED WITHIN A CONTINUOUS STEEL CASING SHALL HAVE A THICKNESS OF NOT LESS THAN 1/2" AND ALL VOIDS BETWEEN THE SEWER LINE AND THE CASING PRESSURE GROUTED WITH SAND-CEMENT GROUT; OR (ZONE-D ONLY) ANY SEWER PIPE SEPARATED BY A REINFORCED CONCRETE BLANKET AS SHOWN IN STANDARD PLAN NO. W-10.
P	PROHIBITED ZONE

CASE 2: NEW WATER MAIN BEING INSTALLED – EXISTING SEWER

IF A PROPOSED WATER MAIN WILL BE LOCATED WITHIN ZONE A, B, C, OR D, THE FOLLOWING SPECIAL REQUIREMENTS WILL APPLY FOR THE PROPOSED WATER MAIN.

ZONE	SPECIAL REQUIREMENTS
A	NO WATER MAIN SHALL BE CONSTRUCTED WITHOUT PERMISSION FROM THE DEPARTMENT OF PUBLIC HEALTH.
B	IF THE SEWER PARALLELING THE WATER MAIN DOES NOT MEET THE CASE-1, ZONE-B REQUIREMENTS, THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING; OR CLASS 200, TYPE II OR CLASS 200 PRESSURE RATED POLY(VINYL CHLORIDE) PIPE OR EQUIVALENT.
C	IF THE SEWER CROSSING THE WATER MAIN DOES NOT MEET THE CASE-1, ZONE-C REQUIREMENTS, THE WATER MAIN SHALL HAVE NO JOINTS IN ZONE-C AND BE CONSTRUCTED OF DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING; OR CLASS 200 PRESSURE RATED POLY(VINYL CHLORIDE) PIPE OR EQUIVALENT AND THE SEWER SHALL BE ENCASED WITH REINFORCED CONCRETE AS SHOWN IN STANDARD PLAN W-10.
D	IF THE SEWER CROSSING THE WATER MAIN DOES NOT MEET THE REQUIREMENTS FOR ZONE-D, CASE-1, THE WATER MAIN SHALL HAVE NO JOINTS WITHIN FOUR (4') FEET FROM EITHER SIDE OF THE SEWER AND SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING; OR CLASS 200 PRESSURE RATED POLY(VINYL CHLORIDE) PIPE OR EQUIVALENT; OR DIPPED AND WRAPPED 1/2" THICK WELDED STEEL PIPE.
P	PROHIBITED ZONE

NOTES:

- ALL DIMENSIONS ARE FROM THE OUTSIDE OF THE WATER MAIN TO THE OUTSIDE OF THE SEWER LATERAL OR MAIN.
- COMPRESSION JOINTS ARE RUBBER RING OR GASKET JOINTS.
- MECHANICAL JOINTS ARE BOLTED JOINTS.

NOT TO SCALE

**SPECIAL CONSTRUCTION REQUIREMENTS  
FOR SEWER AND WATER SEPARATION**

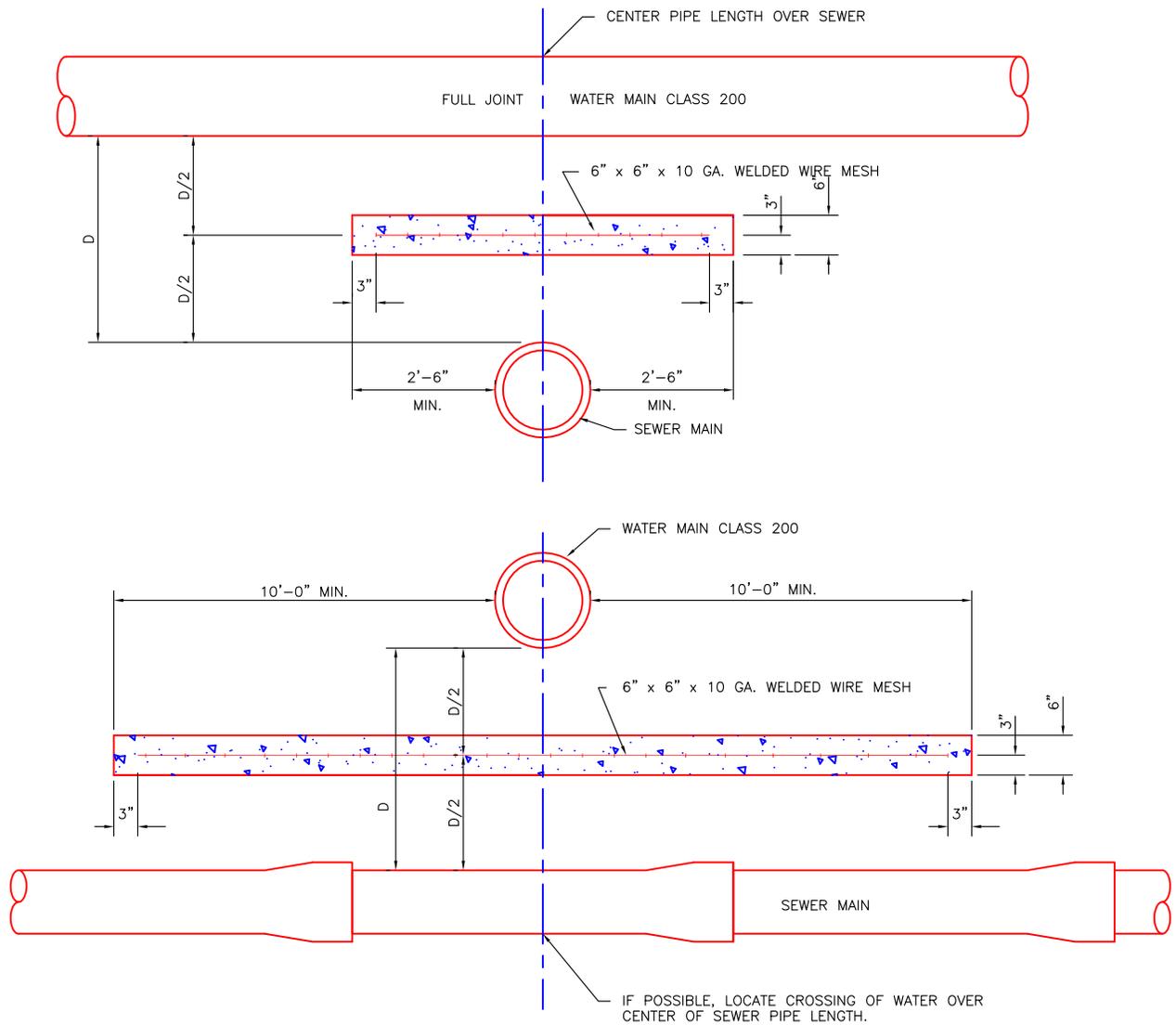
WHERE REQUIRED SEPARATION CANNOT BE MAINTAINED

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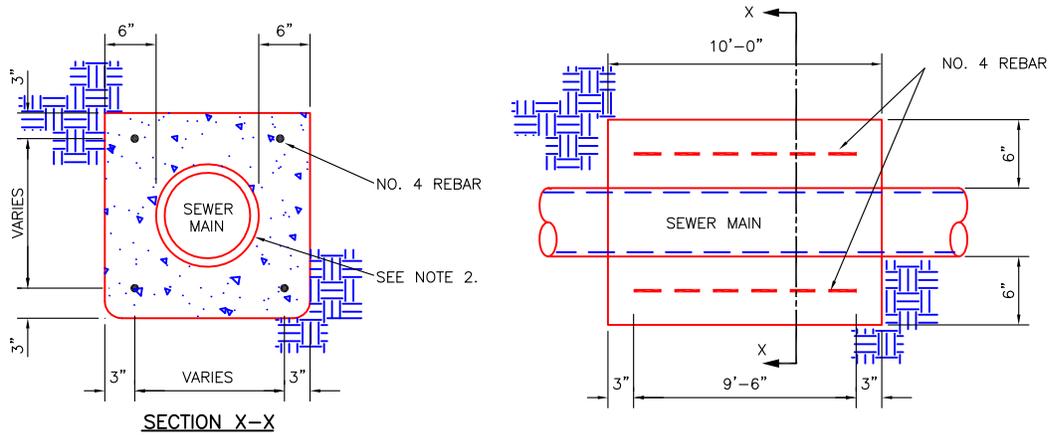
CITY OF REEDLEY

W-9



**REINFORCED CONCRETE BLANKET**

- NOTES:  
 1. CONCRETE SHALL BE CLASS "B" (5 SACK CEMENT / C.Y. CONCRETE)



**REINFORCED CONCRETE ENCASEMENT**

- NOTES:  
 1. CONCRETE SHALL BE CLASS "B" (5 SACK CEMENT / C.Y. CONCRETE)  
 2. WRAP SEWER MAIN WITH 15 lb. FELT.

NOT TO SCALE

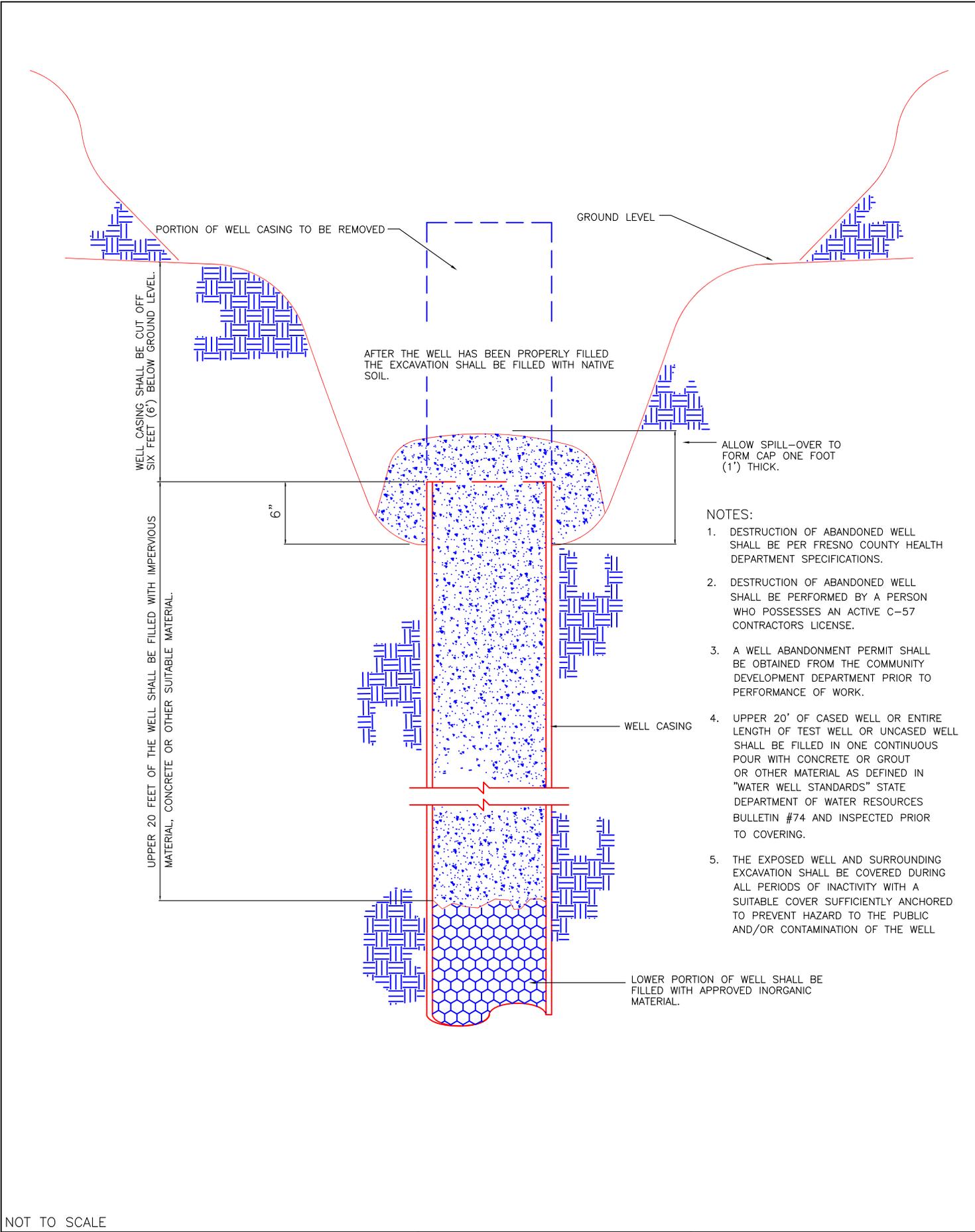
CONCRETE BLANKET / REINFORCED  
 CONCRETE ENCASEMENT FOR SEWER  
 AND WATER SEPARATION

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CITY OF REEDLEY

W-10



NOTES:

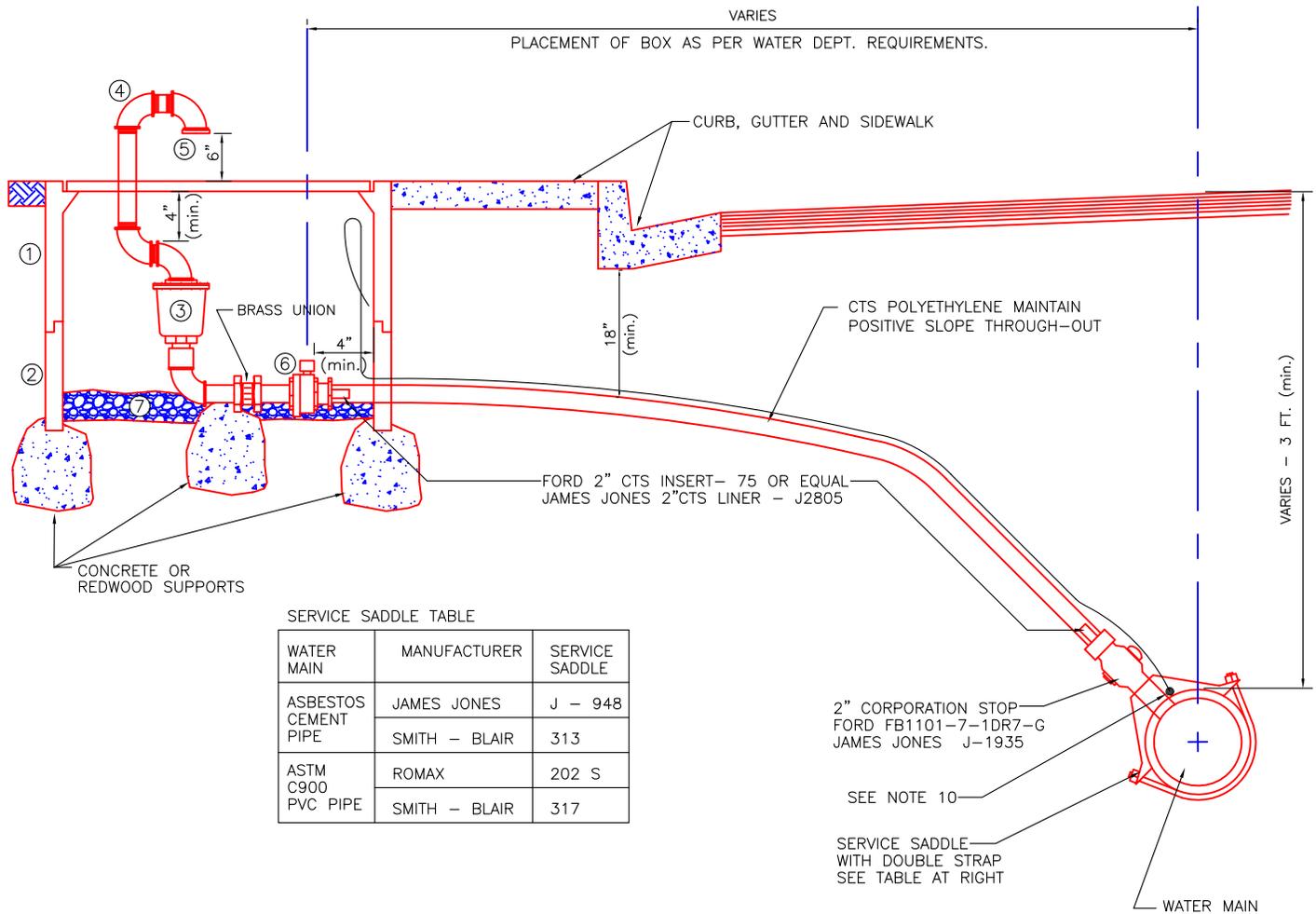
1. DESTRUCTION OF ABANDONED WELL SHALL BE PER FRESNO COUNTY HEALTH DEPARTMENT SPECIFICATIONS.
2. DESTRUCTION OF ABANDONED WELL SHALL BE PERFORMED BY A PERSON WHO POSSESSES AN ACTIVE C-57 CONTRACTORS LICENSE.
3. A WELL ABANDONMENT PERMIT SHALL BE OBTAINED FROM THE COMMUNITY DEVELOPMENT DEPARTMENT PRIOR TO PERFORMANCE OF WORK.
4. UPPER 20' OF CASED WELL OR ENTIRE LENGTH OF TEST WELL OR UNCASED WELL SHALL BE FILLED IN ONE CONTINUOUS POUR WITH CONCRETE OR GROUT OR OTHER MATERIAL AS DEFINED IN "WATER WELL STANDARDS" STATE DEPARTMENT OF WATER RESOURCES BULLETIN #74 AND INSPECTED PRIOR TO COVERING.
5. THE EXPOSED WELL AND SURROUNDING EXCAVATION SHALL BE COVERED DURING ALL PERIODS OF INACTIVITY WITH A SUITABLE COVER SUFFICIENTLY ANCHORED TO PREVENT HAZARD TO THE PUBLIC AND/OR CONTAMINATION OF THE WELL

NOT TO SCALE

WATER WELL ABANDONMENT  
 REQUIREMENTS FOR DESTRUCTION  
 OF WELLS IN URBAN AREAS

REVISIONS:  
 NOV. 2015  
 DRAWN BY: kjp

CITY OF REEDLEY  
 W-11



SERVICE SADDLE TABLE

WATER MAIN	MANUFACTURER	SERVICE SADDLE
ASBESTOS CEMENT PIPE	JAMES JONES	J - 948
	SMITH - BLAIR	313
ASTM C900 PVC PIPE	ROMAX	202 S
	SMITH - BLAIR	317

**NOTES:**

1. CHRISTY B-40 UTILITY BOX W/TRAFFIC COVER MARKED "ARV".
2. CHRISTY EXTENSION SPOOL (IF NECESSARY).
3. 2" AIR AND VACUUM VALVE, APCO S-144.
4. ALL 2" DIAMETER GALVANIZED STEEL PIPE SHALL BE SCHEDULE 80, ASTM A120.
5. BRASS CAP WITH 9 DRILLED 1/16" HOLES OR #18 X 18 STAINLESS STEEL WIRE NETTING (INSECT SCREEN).
6. 2" CURB STOP, FORD BF63-777W-1DR7-G OR JAMES JONES J-1939W.
7. 3" DEEP DRAIN ROCK.
8. TRADE NAMES ARE SPECIFIED HEREIN AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
9. LOCATION OF TAP AND ASSEMBLY SHALL BE DETERMINED IN THE FIELD BY THE CITY ENGINEER.
10. SINGLE STRAND 14 GAUGE COPPER WIRE TO BE LAID ALONG TOP OF NONMETALIC PIPE AND HELD IN PLACE AT 5 FT. INTERVALS BY DUCT OR PLUMBER TAPE, CONNECTED TO ALL VALVES AND FITTINGS.
11. DIELECTRIC FITTINGS ARE REQUIRED BETWEEN CURB STOP AND GALVANIZED STEEL PIPE SERVICE.
12. VALVE BOXES SHALL BE BROUGHT TO PROPER GRADE PRIOR TO ACCEPTANCE OF WORK.
13. THE INSIDE OF THE CURB BOX SHALL BE CLEANED SUCH THAT THE CURB STOP AND METER ARE ACCESSIBLE AND OPERATIONAL PRIOR TO ACCEPTANCE OF WORK.

NOT TO SCALE

2" AIR-RELIEF  
ASSEMBLY

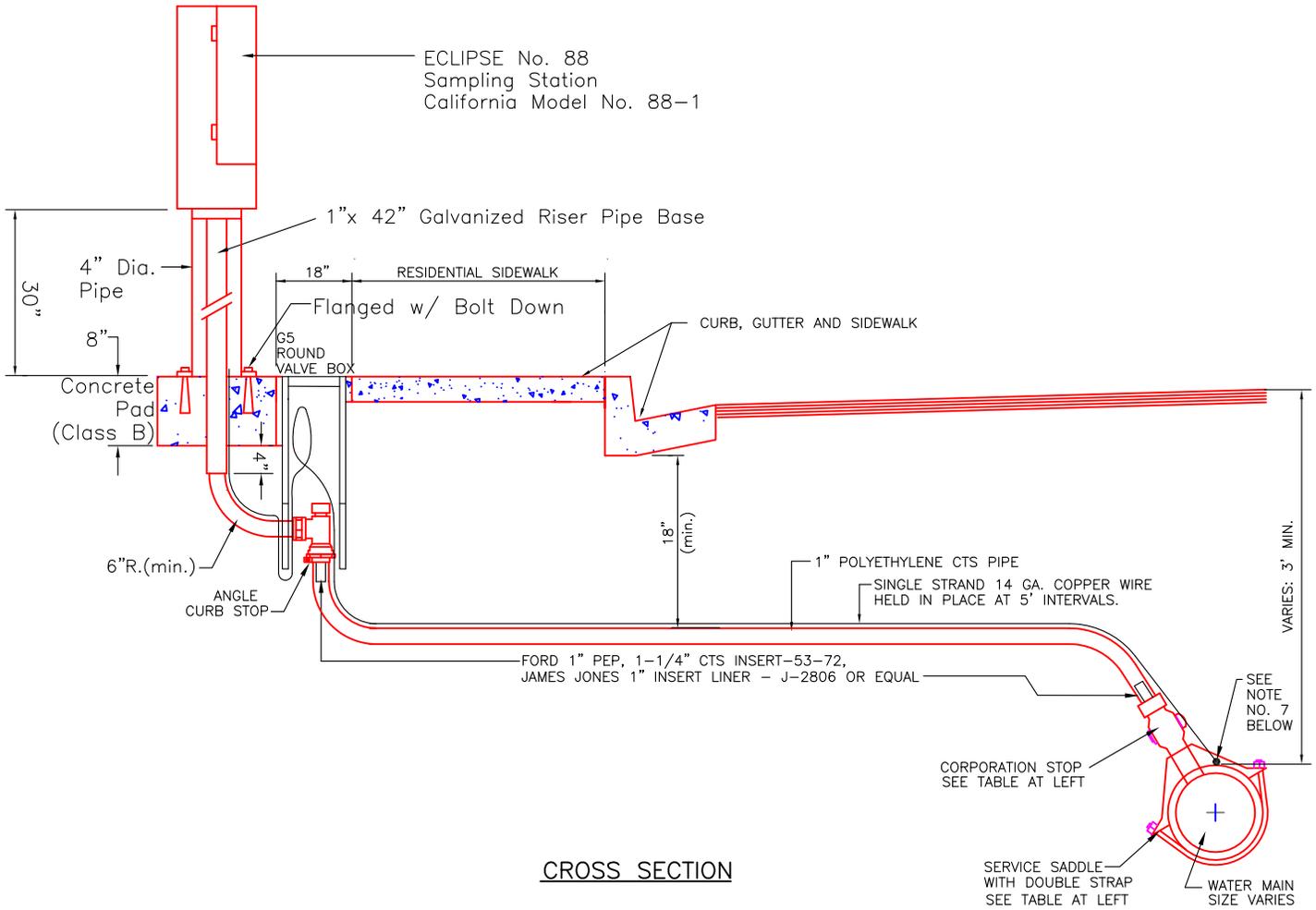
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CITY OF REEDLEY

W-12

MANUFACTURER	1" CURB STOP	2" CURB STOP
JAMES JONES	J-1926W	J-1939W
FORD	B63-444W-G	BF63-777W-1DR7-G



CROSS SECTION

NOTES:

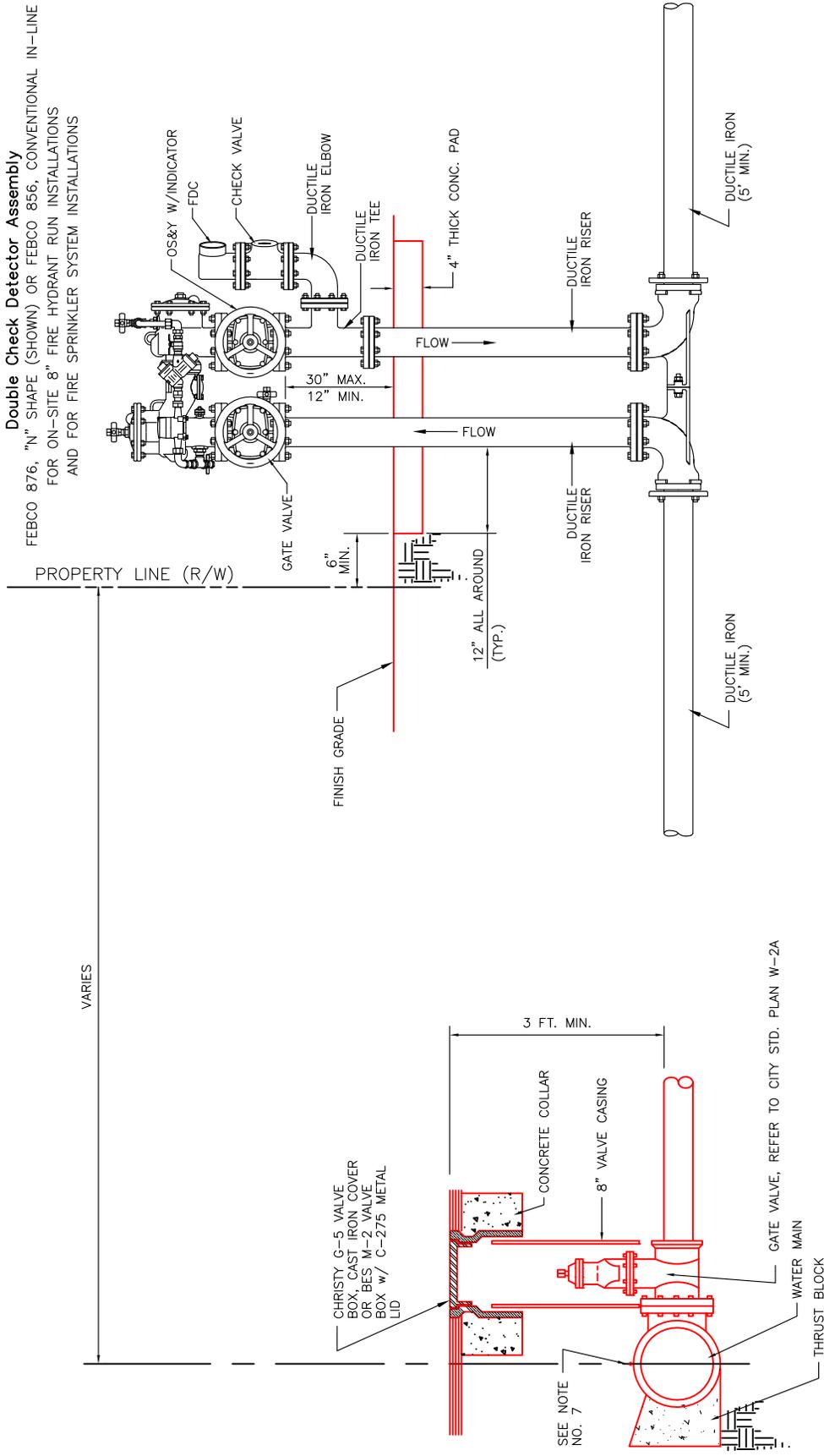
1. TRADE NAMES ARE SPECIFIED HEREIN AS A STANDARD OF ACCEPTABLE QUALITY EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
2. DIELECTRIC FITTING REQUIRED BETWEEN CURB STOP AND GALVANIZED STEEL PIPE.
3. ALTERNATE CONNECTION TO BE INSTALLED ONLY WHEN ALLOWED IN THE SPECIAL PROVISIONS OR BY THE CITY ENGINEER.
4. CONCRETE SHALL BE CLASS 'B' - 6 SACK MIX.
5. LOCATION SHALL BE DETERMINED IN FIELD BY CITY ENGINEER.
6. VALVE BOXES SHALL BE BROUGHT TO PROPER GRADE PRIOR TO ACCEPTANCE OF WORK.
7. SINGLE STRAND 14GA. COPPER WIRE TO BE LAID ALONG TOP OF NON-METALLIC PIPE & HELD IN PLACE AT 5FT INTERVALS BY DUCT TAPE & CONNECTED TO ALL VALVES & FITTINGS.
8. SAMPLING STATION SHALL BE PAINTED W/GLIDDEN #554 DEEP GREEN EXTERIOR ENAMEL OR EQUAL AS APPROVED BY CITY ENGINEER.

NOT TO SCALE

<p>WATER SAMPLING STATION</p>	<p>REVISIONS: NOV. 2015</p>	<p>CITY OF REEDLEY</p>
	<p>DRAWN BY: kjp</p>	<p>W-13</p>

**Double Check Valve Assembly**  
 FEBCO 870, "N" SHAPE OR FEBCO 850, CONVENTIONAL IN-LINE

**Double Check Detector Assembly**  
 FEBCO 876, "N" SHAPE (SHOWN) OR FEBCO 856, CONVENTIONAL IN-LINE  
 FOR ON-SITE 8" FIRE HYDRANT RUN INSTALLATIONS  
 AND FOR FIRE SPRINKLER SYSTEM INSTALLATIONS



- NOTES:
1. APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED ON EACH SERVICE LINE TO A CUSTOMER'S ON-SITE FIRE HYDRANT RUN AT OR NEAR THE PROPERTY LINE.
  2. CAST IRON COVER SHALL BE MARKED "WATER".
  3. TRADE NAMES ARE SPECIFIED HEREIN AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
  4. WATER VALVE SHALL BE APPROVED GATE VALVE AS PER STD. PLAN W-2A
  5. GATE VALVE SHALL BE FLANGED TO TEE IN MAIN.
  6. DIMENSIONS OF CONCRETE PAD TO BE DETERMINED BY THE CITY ENGINEER FOR EACH JOB.
  7. SINGLE STRAND 14 GAUGE COPPER WIRE TO BE LAID ALONG TOP OF NONMETALLIC PIPE AND HELD IN PLACE AT 5 FT. INTERVALS BY DUCT OR PLUMBER TAPE, CONNECT TO ALL VALVES AND FITTINGS.
  8. P.V.C. WATER MAIN SHALL CONFORM TO AWWA C900 SPECIFICATIONS.
  9. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C110 SPECIFICATIONS.
  10. DOUBLE CHECK DETECTOR BACKFLOW PREVENTOR SHALL BE INSTALLED BY A LICENSED PLUMBING CONTRACTOR.

NOT TO SCALE

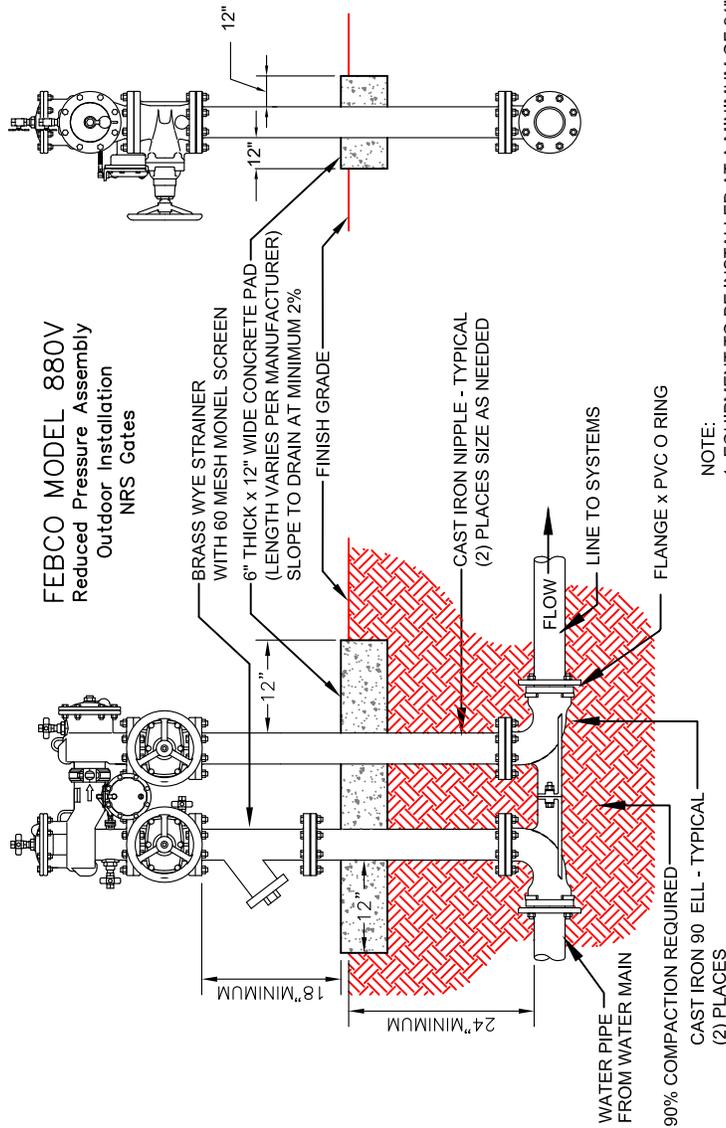
# DOUBLE CHECK VALVE BACKFLOW PREVENTION INSTALLATION

REVISIONS:  
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CITY OF REEDLEY

W-14



**NOTES:**

1. EQUIPMENT TO BE INSTALLED AT A MINIMUM OF 24" FROM ANY STRUCTURES OR HARDSCAPING.
2. ALL ABOVE GROUND ASSEMBLY SHALL RECEIVE (2) COATS OF RED PRIMER AND (1) COAT EXTERIOR ENAMEL - COLOR AS SELECTED BY LANDSCAPE ARCHITECT.
3. WHEN UNIT IS NEXT TO A STRUCTURE (ie. WALL, BUILDING, ETC.) MOUNT TEST COCKS ON OPEN OR NON-STRUCTURE SIDE.

**NOTES:**

1. APPROVED BACKFLOW PRESSURE REDUCER ASSEMBLY SHALL BE INSTALLED ON EACH SERVICE LINE TO A CUSTOMER'S SYSTEM AT OR NEAR THE PROPERTY LINE.
2. TRADE NAMES ARE SPECIFIED HEREIN AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
3. DIMENSIONS OF CONCRETE PAD TO BE DETERMINED BY THE CITY ENGINEER FOR EACH JOB.
4. SINGLE STRAND 14 GAUGE COPPER WIRE TO BE LAID ALONG TOP OF NONMETALIC PIPE AND HELD IN PLACE AT 5 FT. INTERVALS BY DUCT OR PLUMBER TAPE, CONNECTED TO ALL VALVES, FITTINGS & HYDRANT ASSEMBLIES.
5. P.V.C. WATER MAIN SHALL CONFORM TO AWWA C900 SPECIFICATIONS.
6. DIELECTRIC FITTINGS ARE REQUIRED BETWEEN CURB STOP AND GALVANIZED STEEL PIPE SERVICE.
7. VALVE BOXES SHALL BE BROUGHT TO PROPER GRADE PRIOR TO ACCEPTANCE OF WORK.
8. METER AND R.P. VALVE SHALL BE INSTALLED BY A LICENSED PLUMBING CONTRACTOR.
9. THE INSIDE OF THE CURB BOX SHALL BE CLEANED SUCH THAT THE CURB STOP AND METER ARE ACCESSIBLE AND OPERATIONAL PRIOR TO ACCEPTANCE OF WORK.
10. CONCRETE SHALL BE CLASS 'B' - 5 SACK MIX.

NOT TO SCALE

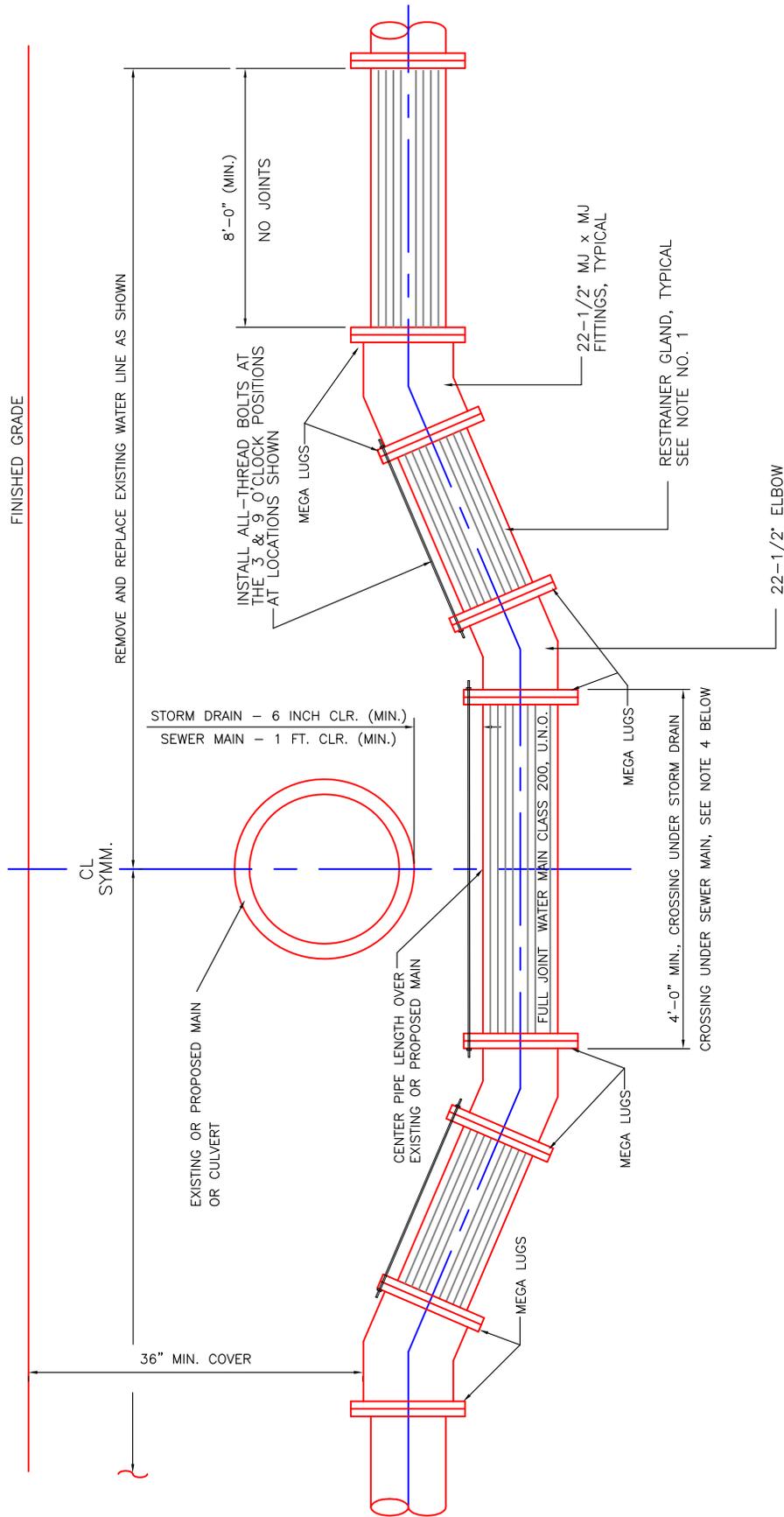
BACKFLOW INSTALLATION  
REDUCED PRESSURE  
(R.P.) VALVE

REVISIONS:  
NOV. 2015

DRAWN BY: kjp

CITY OF REEDLEY

W-15



**NOTES:**

1. INSTALL RESTRAINER GLANDS AS SHOWN PER AWWA SPECIFICATION C600-87, MIN. 6-1/2" DIA. RESTRAINER. ENCASE IN 8 MIL. FILM.
2. SEE WATER MAIN STANDARDS, W-2, W-4, W-6, W-7 FOR DETAILS NOT SHOWN.
3. DISINFECT AND TEST ASSEMBLY PRIOR TO REPLACING TRENCH PAVING.
4. REFER TO W-6 & W-7 FOR SPECIAL CONSTRUCTION REQUIREMENTS FOR SEWER AND WATER SEPARATION.
5. LOWERING WATER MAINS SHALL REQUIRE APPROVAL BY THE CITY ENGINEER.
6. ALL FITTINGS SHALL BE PVC.

NOT TO SCALE

**CONSTRUCTION REQUIREMENTS  
FOR LOWERING WATER MAINS**

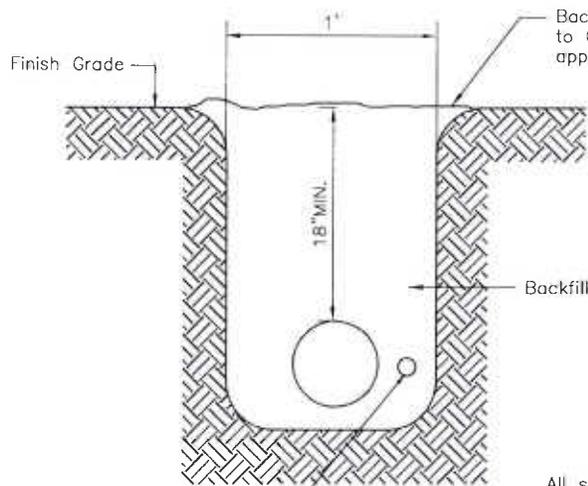
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CITY OF REEDLEY

W-16

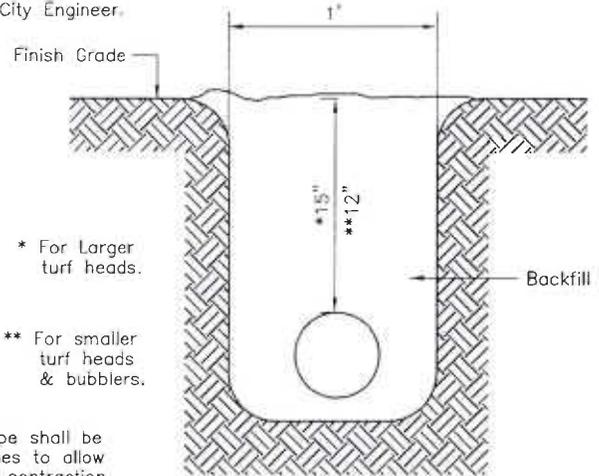




Place irrigation control wires near the main bundle and taped at 10 ft. intervals. Locate wires at the 3 o'clock position.

MAIN LINE

Backfill and compact according to City Std. Plan ST-46 or as approved by the City Engineer.

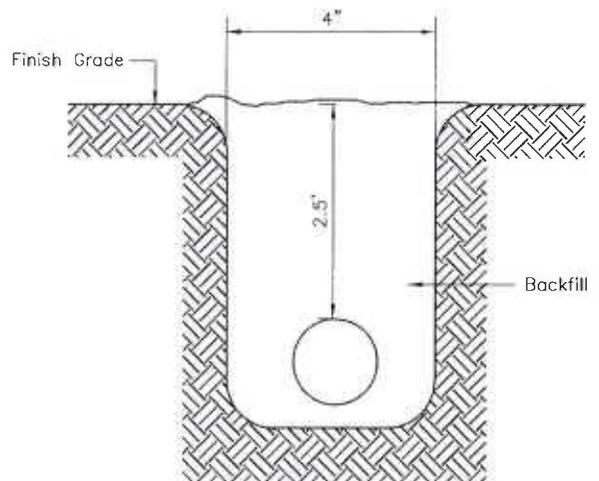


\* For larger turf heads.

\*\* For smaller turf heads & bubblers.

All solvent weld pipe shall be snaked into trenches to allow for expansion and contraction

LATERAL LINE



ELECTRICAL CONDUIT

**NOTES:**

1. All electrical wiring and water lines shall be installed 2.5 ft. deep in a schedule 40 PVC conduit when crossing roadways or under any hard surface.
2. If more than one line is installed per trench, provide 0.5 ft. horizontal and vertical separation.
3. All PVC solvent (glue) shall be #711 (primer is required on main line only).
4. Landscape and irrigation improvements within the dedicated street right-of-way may require an encroachment permit. Check with Public Works Department for requirements.
5. Where open street cuts are required to install various irrigation and/or wires, all street patching within the City right-of-way shall be in accordance with City standard ST-46 or as directed by the City Engineer.
6. When there is a change in fitted direction, all irrigation main lines larger than 2" in diameter (pressure lines) shall be secured with thrust blocks in accordance with manufacturer's recommendation, City Std. W-7 and as directed by the City Engineer.
7. All irrigation lateral lines shall be schedule 40 PVC.

8. All irrigation main lines 2" in diameter and less shall be schedule 40 PVC. Irrigation main lines greater than 2" in diameter shall be PVC Schedule 40 or approved equal by the City Engineer.
9. Any and all changes shall be approved by the City Engineer prior to construction.
10. All irrigation installation shall be in accordance with City standards, the latest approved edition of the Uniform Plumbing Code, Manufacturer's Recommendations and as directed by the City Engineer.
11. All material used shall be new and free from imperfections.
12. See approved landscape and irrigation plans and legends for specific model number, size, quantity, manufacturer, and performance requirements.

NOT TO SCALE

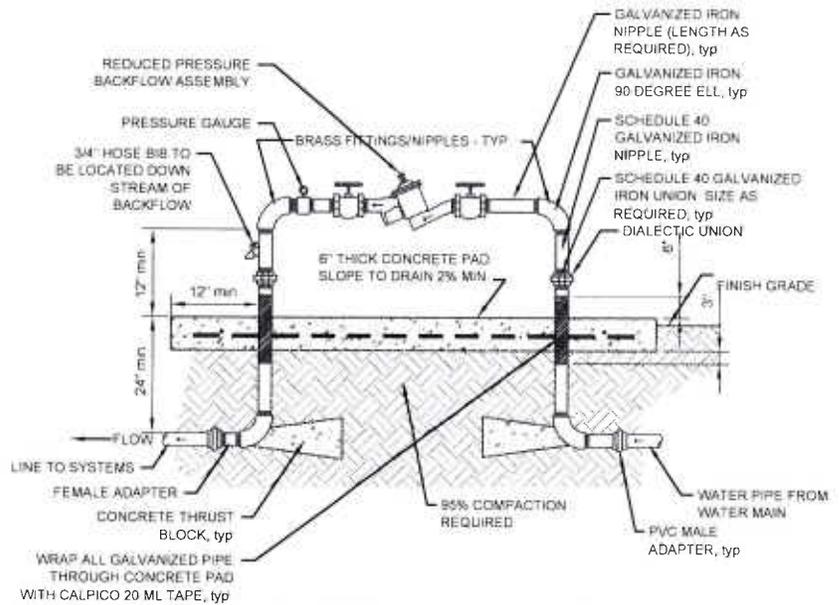
CONDUIT AND IRRIGATION PIPING, TRENCHING & BACKFILL

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

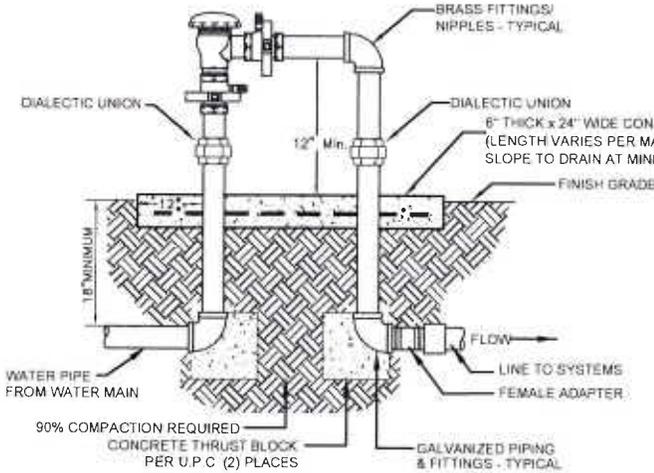
CITY OF REEDLEY

L-2

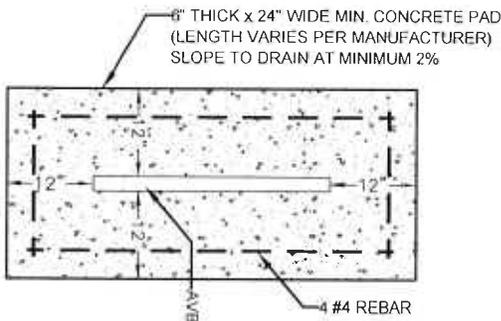


### BACKFLOW PREVENTER

TO BE USED FOR CONSTRUCTION WATER ALSO



### PRESSURE VACUUM BREAKER



### CONCRETE SLAB PLAN REQUIRED ON ALL ASSEMBLIES

#### NOTES:

1. Except as noted, all piping and fittings shall be galvanized unless approved by the City Engineer.
2. Use teflon tape on all threaded joints or approved equal by the City Engineer.
3. All materials shall be new and free from imperfections.
4. For less than a 2" landscape service, if water pressure is not available a Febco 766 Pressure Vacuum Breaker may be utilized with approval by the City Engineer.
5. See approved landscape and irrigation plans and legends for specific model numbers, sizes, quantity, manufacturer's, and performance requirements.
6. All transitions from galvanized pipe to PVC shall be constructed with Schedule 40 female adapter or approved equal by the City Engineer.
7. A 6" thick concrete (4000 PSI) slab is required for all water protection devices. 4 #4 Rebar reinforcement required. Minimum clearance shall be 1 ft. on all sides of the device and as directed by the City Engineer.
8. All irrigation installation shall be in accordance with City standards, the latest accepted edition on the Uniform Plumbing Code, manufacturer's recommendation, and as directed by the City Engineer.
9. Any and all changes shall be approved by the City Engineer before construction.
10. Before acceptance of work by the City, the backflow preventer shall be tested and certified by a licensed Backflow Plumber. Certification shall be delivered to the City Engineer.

NOT TO SCALE

POTABLE WATER  
PROTECTION

REVISIONS:  
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L-3

NOT TO SCALE

# LANDSCAPE IRRIGATION BACKFLOW ENCLOSURE

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SEPT. 2016

DRAWN BY: kjp

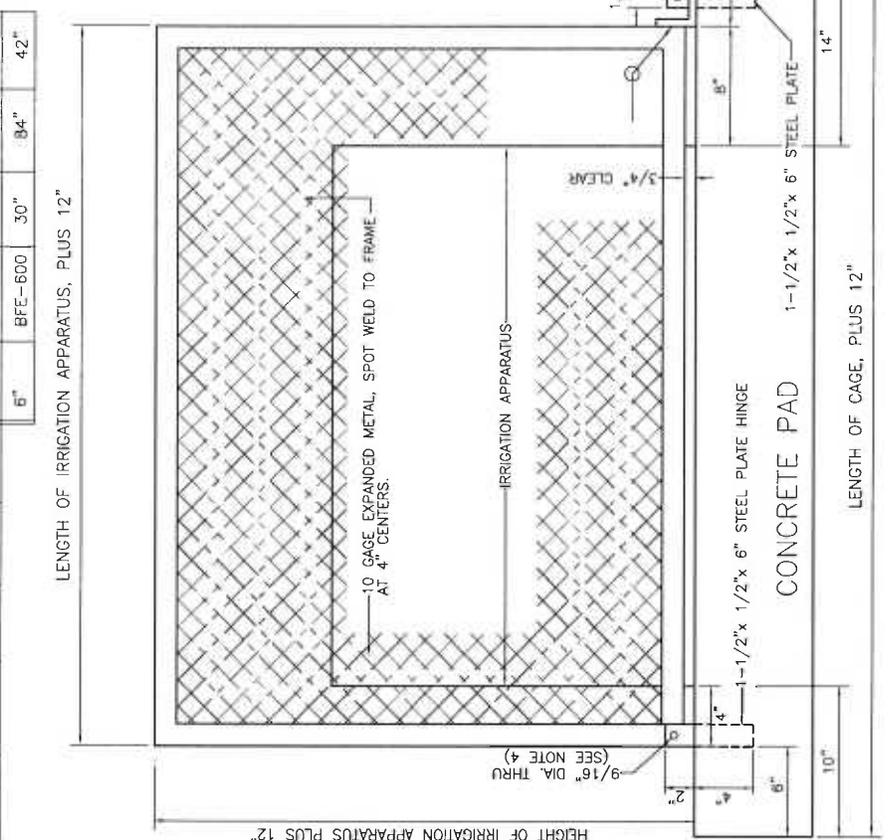
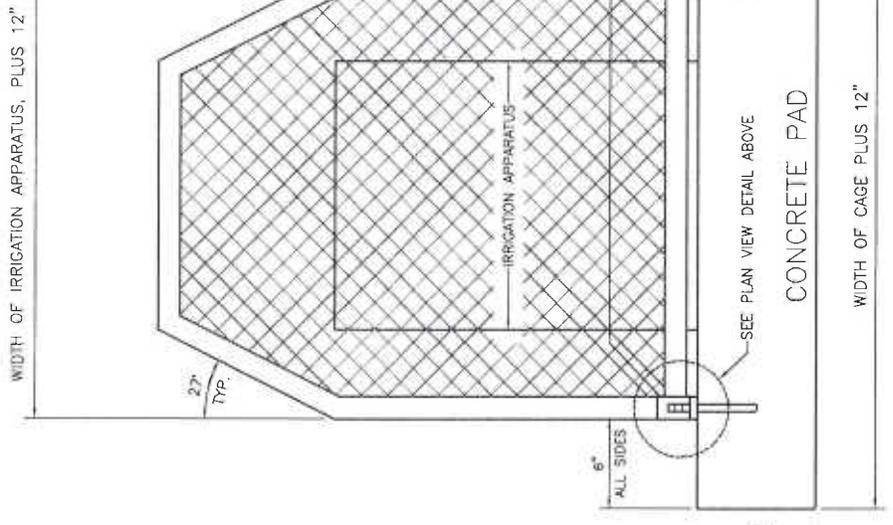
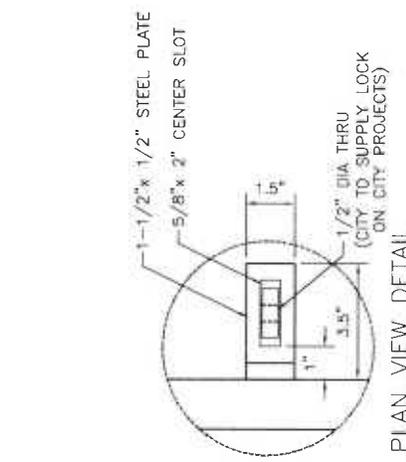
CITY OF REEDLEY

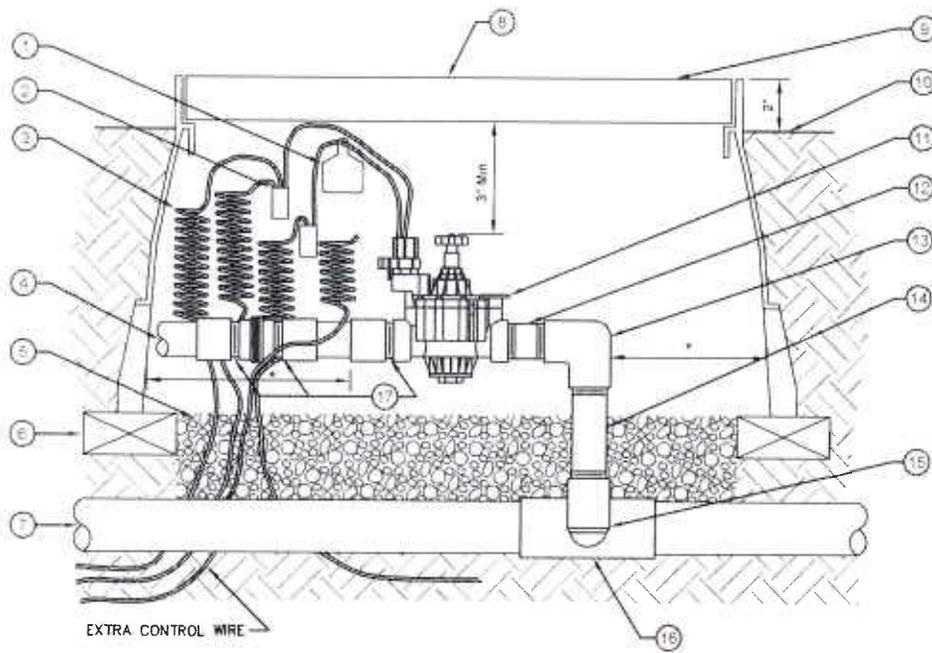
L-4

**NOTES:**

1. PAINT ALL METAL SURFACES WITH 2 COATS DARK GREEN ENAMEL OVER A PRIMER BASE.
2. FRAME CONSTRUCTED OF 1 1/2" BY 1 1/2" ANGLE IRON.
3. CONCRETE SHALL BE CLASS "B" (5 SACK).
4. 1/2"x 2" HEX CAP SCREW, GRADE 2 WITH 2 NUTS EACH.
5. PREFABRICATED SINGLE-LIFT OR DOUBLE-LIFT BACKFLOW ENCLOSURES AVAILABLE FROM NATIONAL WATERWORKS, 2651 E. BYRD AVE., #101, FRESNO, CA 93706 PHONE 559-237-7488, FAX 559-237-6423, SEE TABLES BELOW FOR SIZING.

SIZING FOR SINGLE-LIFT ENCLOSURES				SIZING FOR DOUBLE-LIFT ENCLOSURES					
VALVE SIZE	PART #	WIDTH	LENGTH	HEIGHT	VALVE SIZE	PART #	WIDTH	LENGTH	HEIGHT
1"	BFE-100	12"	30"	24"	2-1/2"	BFE-250	24"	50"	36"
1-1/2"	BFE-200	18"	42"	30"	3"	BFE-400	30"	72"	42"
2"	BFE-200	18"	42"	30"	4"	BFE-400	30"	72"	42"
					5"	BFE-600	30"	84"	42"

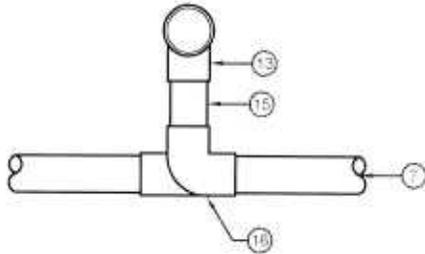




- ① INTERNAL IDENTIFICATION TAG
- ② WATERPROOF CONNECTION (1 OF 2)
- ③ 30" OF COILED WIRE
- ④ PVC LATERAL PIPE
- ⑤ 3" Min. DEPTH OF 3/4" GRAVEL (WASHED)
- ⑥ BRICK SUPPORT (1 OF 4)
- ⑦ PVC MAINLINE PIPE
- ⑧ VALVE BOX IDENTIFICATION TAG
- ⑨ PLASTIC VALVE BOX (SEE NOTE 2 BELOW)
- ⑩ FG
- ⑪ REMOTE CONTROL VALVE
- ⑫ PVC SCH.80 NIPPLE (CLOSE)
- ⑬ PVC SCH.40 ELL
- ⑭ PVC SCH.80 NIPPLE (LENGTH AS REQUIRED)
- ⑮ SCH.80 NIPPLE (2" LENGTH) & SCH.40 ELL
- ⑯ PVC SCH.40 TEE OR ELL
- ⑰ PVC SCH.40 MALE ADAPTER

NOTES:  
 \* 5 X THE DIAMETER OF THE PIPE

## REMOTE CONTROL VALVE - GLOBE



### PLAN VIEW

CONTROL WIRING SHALL BE DIRECT BURIAL AWG-UF TYPE;  
 "HOT" WIRE NOT SMALLER THAN AWG NO. 14;  
 COMMON WIRE NOT SMALLER THAN AWG NO. 12.

### CONTROL WIRE SIZE

#### NOTES:

1. Use teflon tape on all threaded joints or approved equal by City Engineer.
2. All nipples shall be Schedule 80 PVC. All fittings shall be Schedule 40 PVC.
3. All irrigation control valves shall be placed in a plastic irrigation control valve box with top of valve box even with finished grade in turf and 2-inches above finished grade in planter area. The following plastic valve box and lid are deemed acceptable. Any deviation from the accepted box and lid below must be approved by the City Engineer.  
  
 Christy FL9T Fibrelyte Lid  
 FL9 Fibrelyte Box
4. Installation of extra irrigation control wire from irrigation control clock to remote control valve is required for each manifold (bundle of valves). Extra wire shall be a different color than the one used to operate valves.
5. All irrigation control wires (control and common) shall be U.L. single strand copper wire, taped and bundled at 10 ft. intervals and placed near the irrigation mainline at 3 o'clock position.

6. All wire connections shall be waterproof and approved by the City Engineer. Splices will not be allowed unless approved by the City Engineer. The approved splices will require the use of a splice box.
7. Maintain 2 ft. separation between remote control valves (centerline to centerline) when more than one valve is installed in the same location.
8. Where possible, locate valves in the planter areas.
9. All irrigation installations shall be in accordance with City standards, the latest approved edition of the Uniform Plumbing Code, manufacturer's recommendations, and as directed by the City Engineer.
10. All materials used shall be new and free from defects.
11. Any and all changes shall be approved by the City Engineer prior to construction.
12. See approved landscape plans and legends for specific model numbers, size, quantity, manufacturer's and performance requirements.

NOT TO SCALE

REMOTE CONTROL VALVE

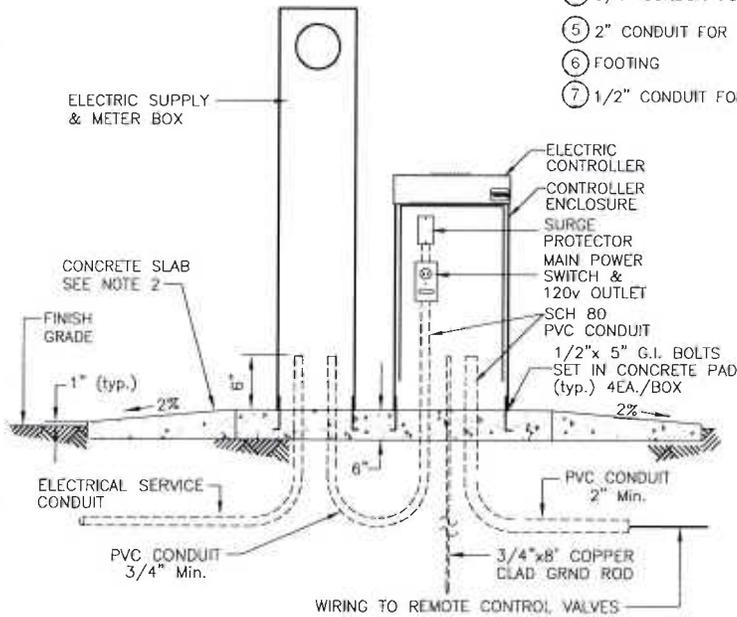
REVISIONS:  
 SEPT. 2016

DRAWN BY: kjp

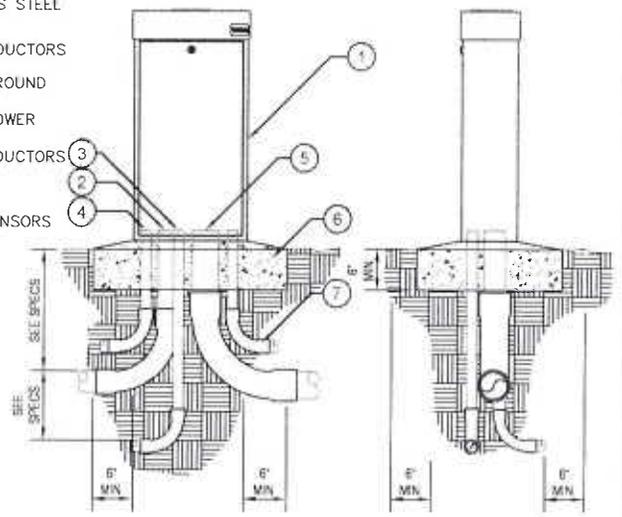
CITY OF REEDLEY

L-5

- ① SENTINEL — STAINLESS STEEL PEDESTAL CABINET
- ② 2" CONDUIT FOR CONDUCTORS
- ③ 3/4" CONDUIT FOR GROUND
- ④ 3/4" CONDUIT FOR POWER
- ⑤ 2" CONDUIT FOR CONDUCTORS
- ⑥ FOOTING
- ⑦ 1/2" CONDUIT FOR SENSORS



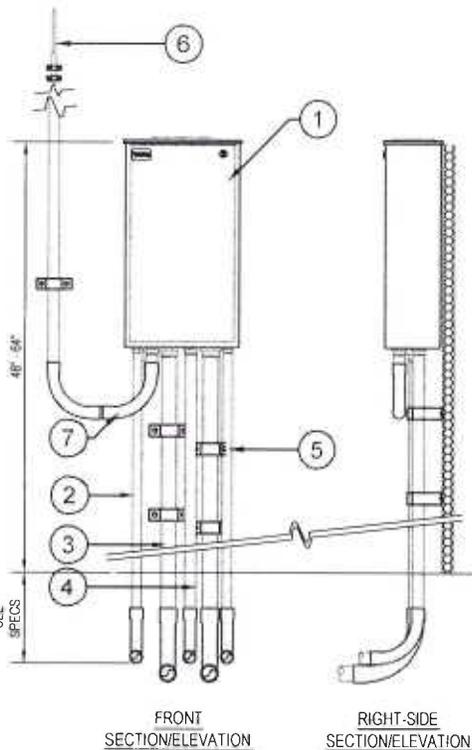
**ELECTRIC CONTROLLER & SERVICE**



FRONT SECTION/ELEVATION

RIGHT-SIDE SECTION/ELEVATION

**SENTINEL — SS PEDESTAL CABINET**



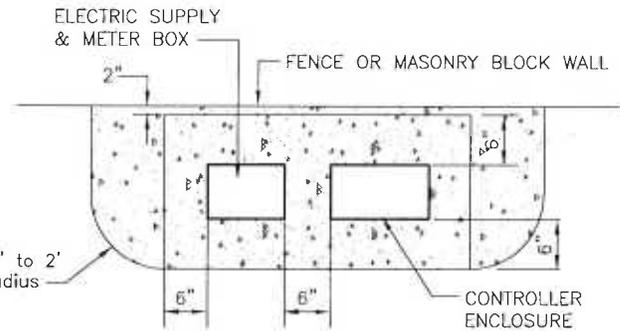
FRONT SECTION/ELEVATION

RIGHT-SIDE SECTION/ELEVATION

**SENTINEL — SS WALL MOUNTED CABINET**

SEE NOTE 7

- ① TORO SENTINEL — STAINLESS STEEL WALL MOUNTED CABINET
- ② 3/4" CONDUIT FOR POWER
- ③ 2" CONDUIT FOR CONDUCTORS
- ④ 3/4" CONDUIT FOR GROUND
- ⑤ 1/2" CONDUIT FOR SENSORS
- ⑥ ANTENNA
- ⑦ ANTENNA CONDUIT



**PLAN VIEW OF CONTROLLER & SERVICE**

**NOTES:**

1. Use Schedule 80 PVC conduit within enclosed pedestal, slope conduit to drain 1/8-inch per 1 ft.
2. Construct 6" Class 'B' (per Section 10 of City Standard Specifications) concrete slab as required to receive the pedestal mounted irrigation control clock. Compact 6" base to 90% relative density prior to placement of concrete slab.
3. All materials shall be new and free from defects.
4. See approved landscape/irrigation plans and legends for specific model numbers, size, quantities, manufacturer's, and performance requirements.
5. Any and all changes from this standard shall be approved by the City Engineer prior to any type of construction.
6. Controller to be properly grounded per National Electrical Code, Article 250, and local regulations.
7. Toro Sentinel Stainless Steel Wall Mounted Cabinet may be installed with City Engineer approval.

NOT TO SCALE

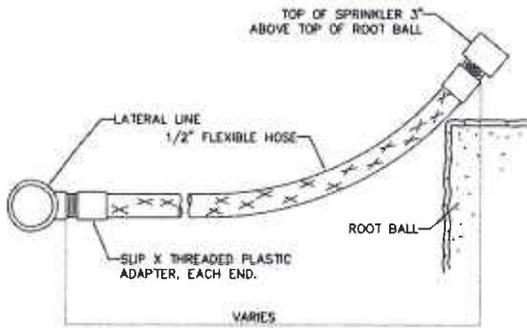
**ELECTRIC CONTROLLER AND SERVICE**

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SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

L-6



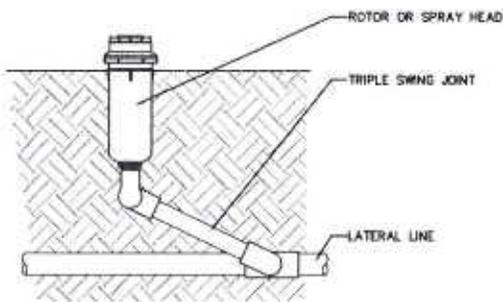
NOTE:  
NO NATIVE SOIL ON  
TOP OF ROOT BALL

**SHRUB BUBBLER**

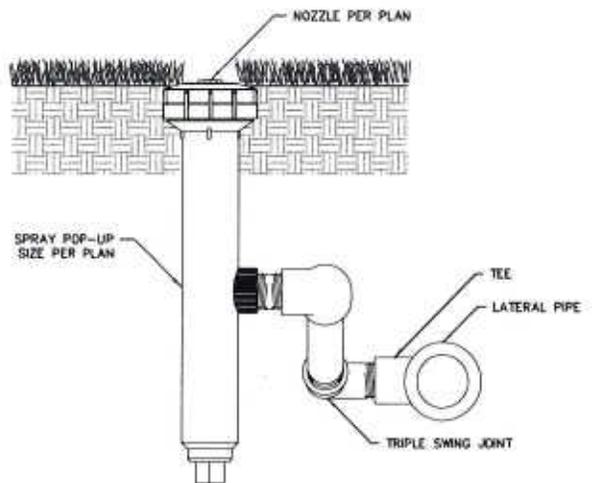
**NOTES:**

1. Use teflon tape on all threaded joints or approved equal by City Engineer.
2. All risers and nipples shall be Schedule 80 PVC.
3. All fittings shall be Schedule 40 PVC.
4. All laterals shall be Schedule 40 PVC or as noted on the landscape/irrigation plans.
5. Where irrigation heads are installed within embankments, a drain valve or check valve is required to prevent erosion. Check valves and drain valves shall be installed at locations as prescribed by the specific field conditions and shall be approved by the City Engineer prior to use and placement.
6. All pop-up heads shall be 1-inch from concrete and asphalt areas. All large radius irrigation heads (part circle) shall be 4-inches from concrete and asphalt areas. Height of pop-up heads shall be as follows:  
4-inches for lawn areas  
1 foot for shrubs  
1 foot for ground covers
7. Where part circle irrigation heads adjacent to a building wall, locate irrigation head 1 ft. from face of building wall to back of irrigation head.
8. Swing joints shall be allowed on all irrigation heads even where not required.
9. All irrigation installation shall be in accordance with City standards, the latest edition of the Uniform Plumbing Code, manufacturer's recommendation and as directed by the City Engineer.
10. All materials shall be new and free from defects.
11. See approved landscape/irrigation plans and legends for specific model numbers, size, quantities, manufacturer's, and performance requirements.
12. Any and all changes from this standard shall be approved by the City Engineer prior to any type of construction.

- NOTES:  
1. INSTALL SPRINKLER HEAD FLUSH OR SLIGHTLY ABOVE FINISH GRADE IN TURF AREAS.  
2. INSTALL SPRINKLER HEAD 2" ABOVE FINISH GRADE IN SHRUB AND GROUND COVER AREAS. DO NOT COVER WITH MULCH.



**POP UP ROTOR IN TURF**



**POPUP-SPRAY**

NOT TO SCALE

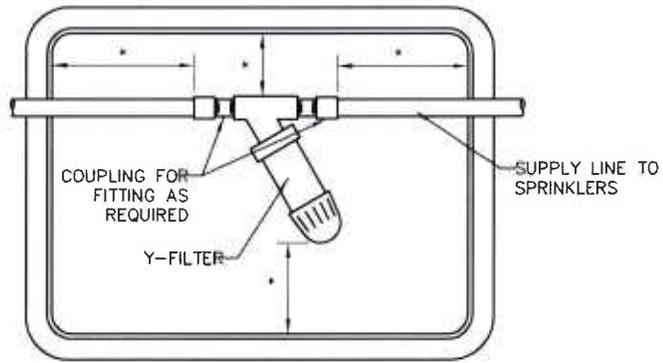
**VARIOUS  
IRRIGATION  
HEADS**

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

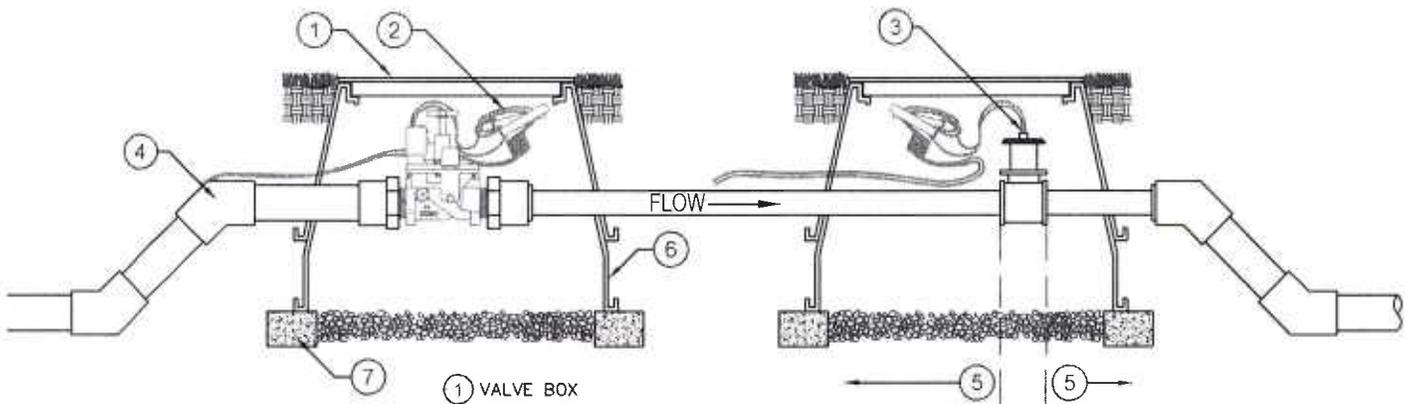
L-7



\* = 2" Min. CLEARANCE

PLAN VIEW

FILTER



- ① VALVE BOX
- ② CONDUCTORS
- ③ FLOW SENSOR
- ④ PVC ELL - 45 DEGREE
- ⑤ MIN. 10 X PIPE DIA. UPSTREAM  
MIN. 5 X PIPE DIA. DOWNSTREAM
- ⑥ EXTENTIONS AS NECESSARY
- ⑦ BRICK SUPPORT

MASTER VALVE - FLOW SENSOR

NOT TO SCALE

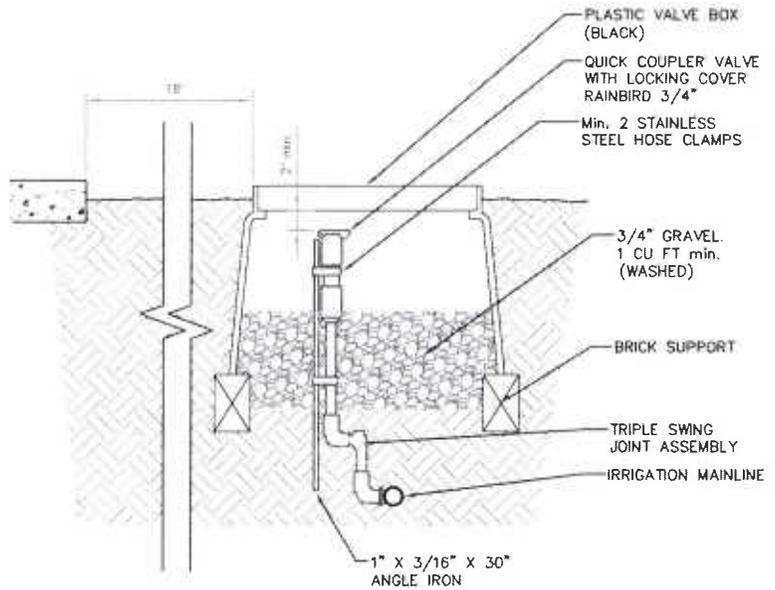
FLOW SENSOR  
AND  
FILTER

REVISIONS:  
SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

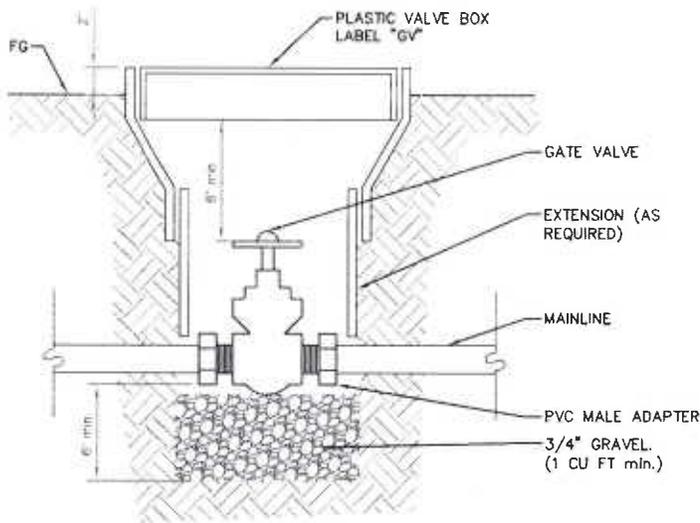
L-8



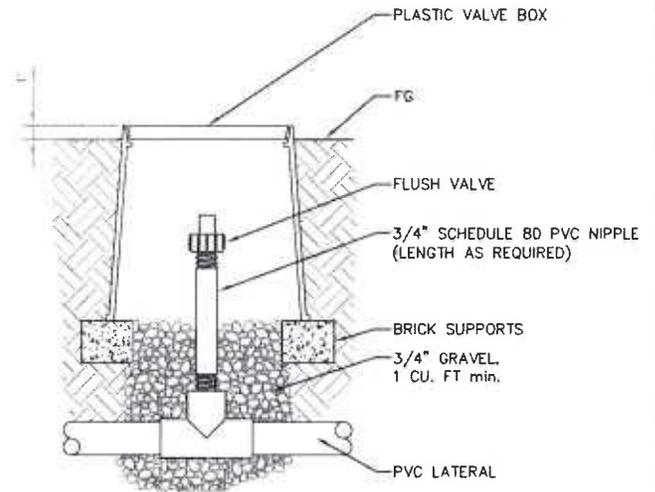
### QUICK COUPLER

#### NOTES:

1. Use teflon tape on all threaded joints or as approved by City Engineer.
2. All risers and nipples shall be Schedule 80 PVC.
3. All fittings shall be Schedule 40 PVC.
4. All laterals shall be Schedule 40 PVC or as noted on the landscape/irrigation plans.
5. All irrigation installation shall be in accordance with City standards, the latest edition of the Uniform Plumbing Code, manufacturer's recommendation and as directed by the City Engineer.
6. All materials shall be new and free from defects.
7. See approved landscape/irrigation plans and legends for specific model numbers, size, quantities, manufacturer's, and performance requirements.
8. Any and all changes from this standard shall be approved by the City Engineer prior to any type of construction.



### GATE VALVE



### FLUSH VALVE

NOT TO SCALE

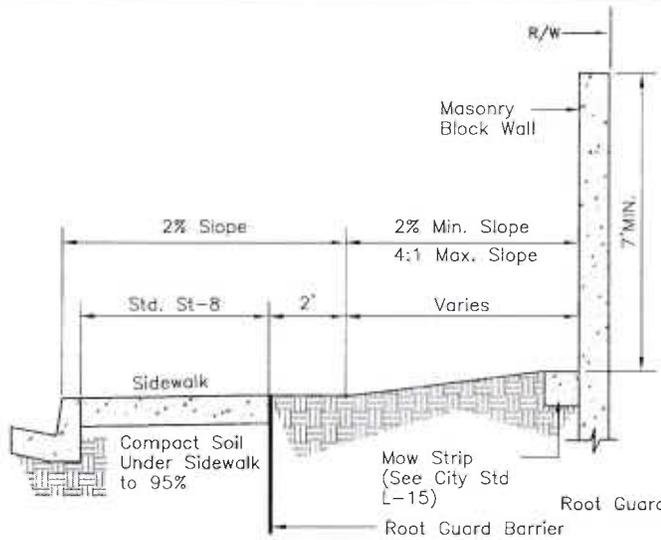
QUICK COUPLER  
AND  
VALVES

REVISIONS:  
SEPT. 2016

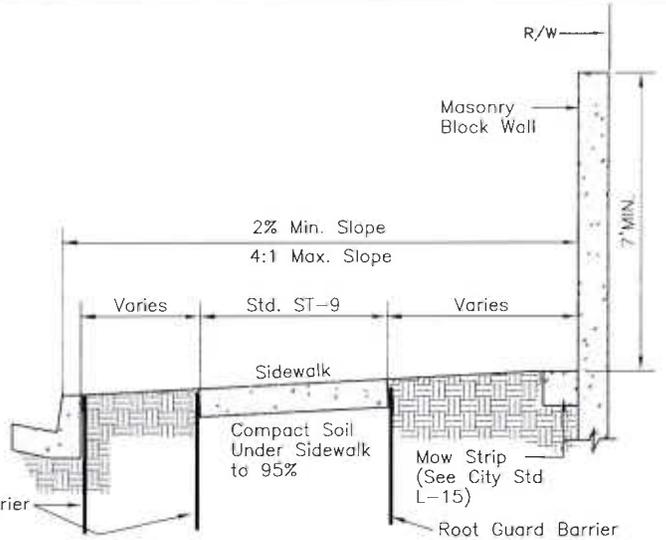
DRAWN BY: kjp

CITY OF REEDLEY

L-9

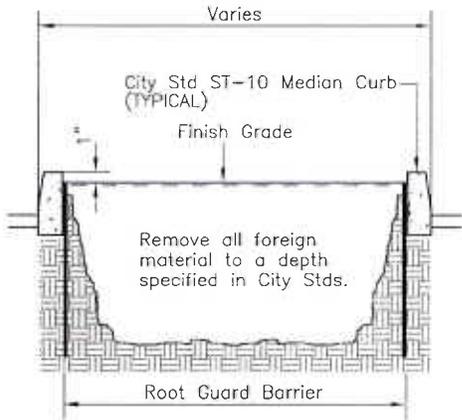


**PARKWAY SECTION**  
**MONOLITHIC CURB, GUTTER AND SIDEWALK**

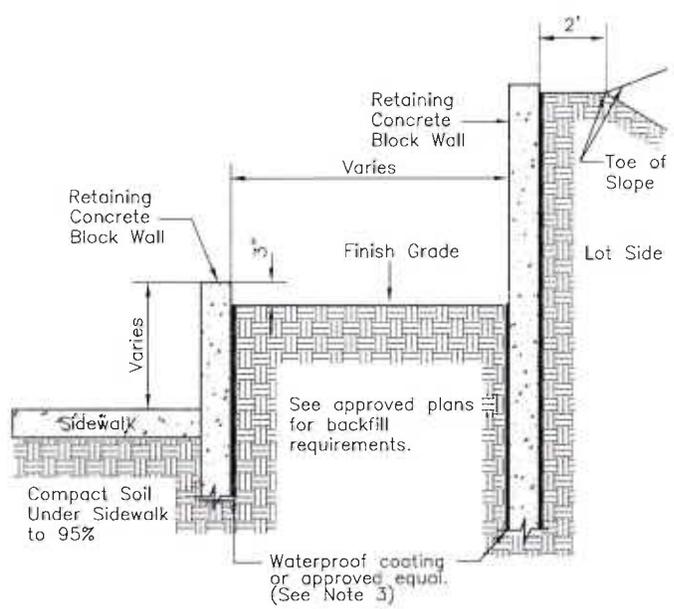


**PARKWAY SECTION**  
**LANDSCAPE STRIPS, MEANDERING SIDEWALK**

MASONRY BLOCK WALL MUST BE DESIGNED BY A QUALIFIED ENGINEER AND DESIGN SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL



**MEDIAN SECTION**



**WATER PROOFING**  
**(PLANTERS AND RETAINING WALLS)**

ALL RETAINING WALLS MUST BE ENGINEERED AND CALCULATIONS SUBMITTED TO CITY ENGINEER FOR REVIEW AND APPROVAL.

**NOTES:**

1. Provide positive drainage (2% minimum to 4% maximum) in all landfill areas.
2. 9-inch concrete mow strip is required for all lawn areas adjacent to proposed or existing wall per Standard Plan L-15.
3. Where lot grades are higher than street grades, side of wall water proofing is required.
4. If curbing and or curb/gutter for landscape center medians are not existing, see approved civil engineering drawings.
5. All irrigation installation shall be in accordance with City Standards, the latest edition of the Uniform Plumbing Code, manufacturer's recommendation and as directed by the City Engineer.
6. Any and all changes from this standard shall be approved by the City Engineer prior to any type of construction.

NOT TO SCALE

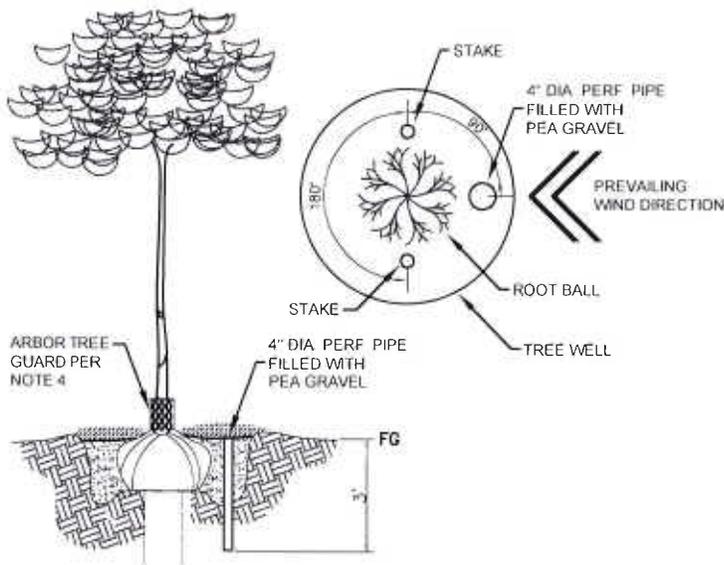
**PARKWAY AND MEDIAN SECTION DETAILS**

REVISIONS:  
 SEPT. 2016

DRAWN BY: kjp

CITY OF REEDLEY

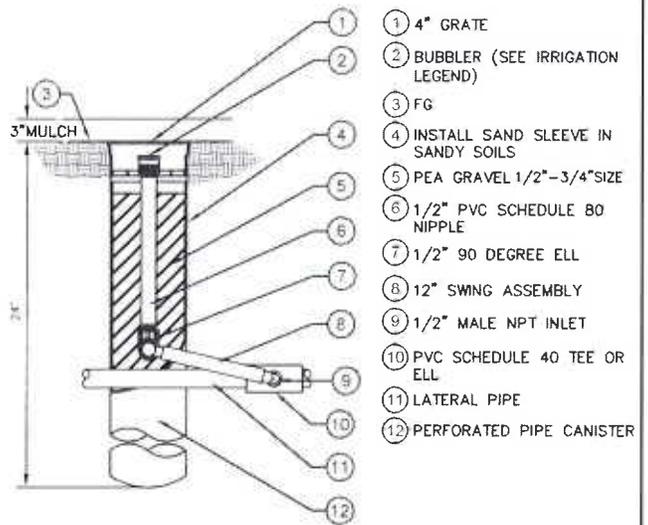
L-10



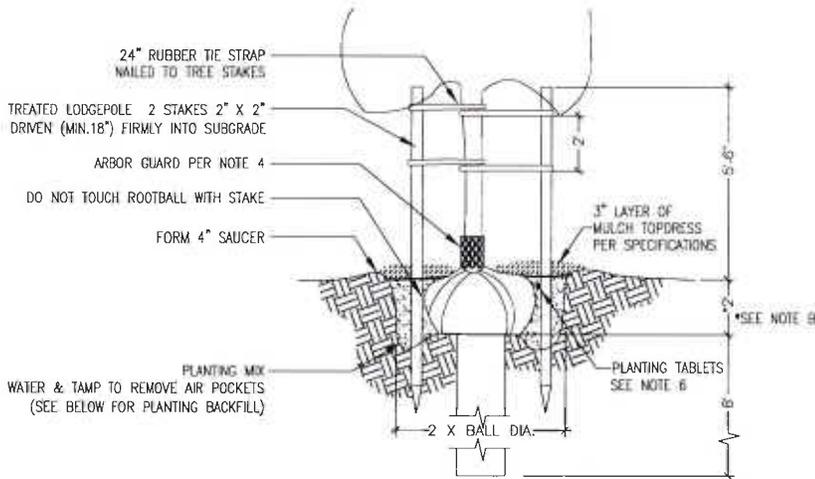
TURF AREAS\*  
NO BUBBLERS

\*TREES LOCATED IN LANDSCAPED AREAS REQUIRE ONLY 1 BUBBLER. TREES LOCATED IN TURF AREAS DO NOT REQUIRE BUBBLERS.

### TREE IRRIGATION

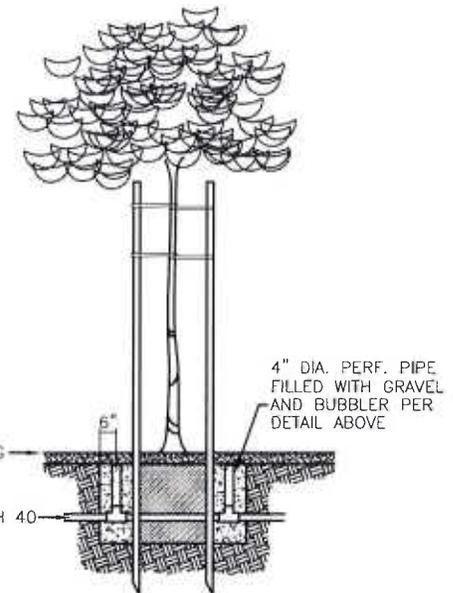


### BUBBLER IN ROOT WATERING SYSTEM



- TOP SUPPORT OF TREES SHOULD BE 6" ABOVE POINT WHERE TREE HEAD IS SELF SUPPORTING AND CLEAR OF BRANCHES.
- PLANTING DEPTH TO BE DICTATED BY POINT OF FIRST ROOT FLAIR (EXCLUDING ADVENTITIOUS ROOTS).
- ROOTBALL TO BE 1" ABOVE FINISHED GRADE BY END OF MAINTENANCE PERIOD.
- PLANTING BACKFILL MIX SHALL CONSIST OF 60% NATIVE SOIL & 40% NITROLIZED WOOD SHAVINGS.
- THE CONTRACTOR SHALL DRILL A 12" DIA x 8" DEEP HOLE AT THE BOTTOM OF EACH PLANTING PIT, PENETRATING THROUGH THE HARDPAN TO LOOSE, FRIABLE SOIL.

### TREE PLANTING AND STAKING



### TREE BUBBLER IN TREE WELL

#### NOTES:

- Apply soil amendment as per soil test.
- All trees shall be staked with new 2-inch diameter (pressure treated) Lodge Pole Pine. Remove original tree stakes from all plant material delivered to the project site and install new tree stakes.
- Construct mound as required to secure plants stability during construction installation.
- 6" min. Arbor tree guard or approved equal is required around all tree trunks planted in lawn areas,
- 10' Long x 24" deep root barrier is required against all hard surfaces when the tree trunk is 5 ft. or less from any hard surface. Center root barrier length onto tree. Top of root barrier shall be 1/2" below finished grade.
- Planting tablet shall be placed 2" below finished grade near root foundation as follows: 1 Tablet for 1 Gallon, 3 Tablets for 5 Gallon, 6 Tablets for 15 Gallon and 9 Tablets for 24" box.

NOT TO SCALE

TREE PLANTING  
AND  
IRRIGATION DETAILS

REVISIONS:  
SEPT. 2016

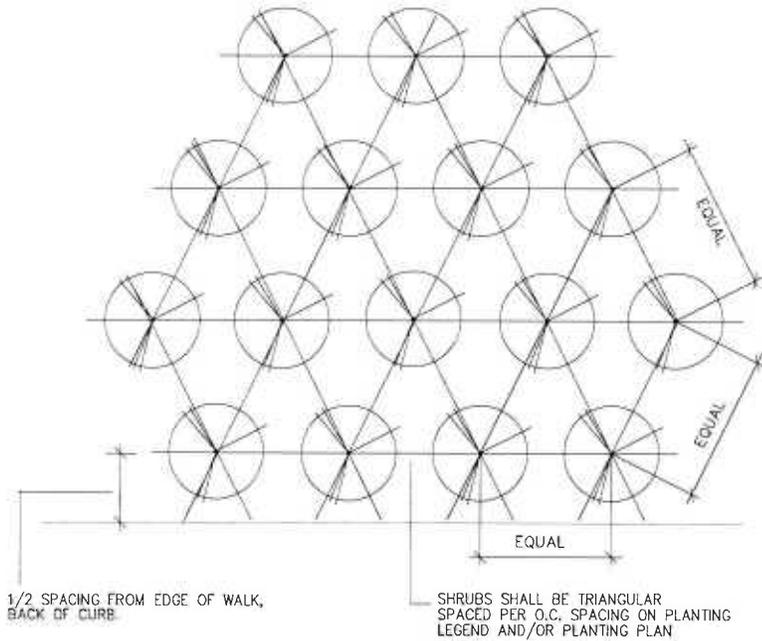
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CITY OF REEDLEY

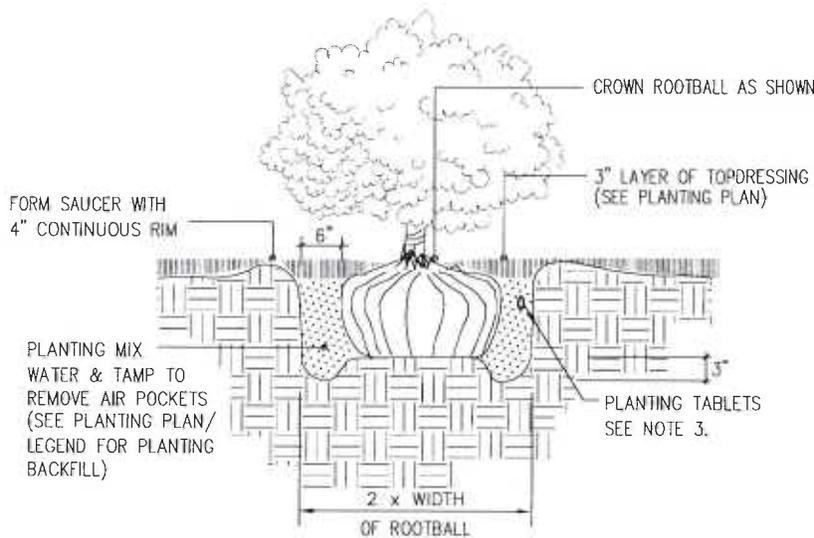
L-11

**NOTES:**

1. Apply soil amendment as per soil test.
2. Construct mound as required to secure plants stability during construction installation.
3. Planting tablet shall be placed 2-inches below finished grade near root foundation as follows:
  - 1 - Tablet per 1 Gal.
  - 3 - Tablets per 5 Gal.
  - 6 - Tablets per 15 Gal.
  - 9 - Tablets per 24-inch Box
4. Any and all deviations from this standard shall be approved by the City Engineer prior to construction.
5. All landscape planting and installation shall be in accordance with approved specific landscape irrigation construction plans, and as directed by the City Engineer.



**SHRUB SPACING**



**SHRUB PLANTING**

NOT TO SCALE

SHRUB PLANTING  
AND  
IRRIGATION DETAILS

REVISIONS:  
SEPT. 2016

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CITY OF REEDLEY

L-12

COMMON BRICK MATERIAL  
FLUSH TO TOP OF SIDEWALK  
AND LAID ON 2" OF SAND.

TOP OF ROOT BARRIER 1/2"  
BELOW FINISHED GRADE.

FINISHED GRADE 1"  
BELOW TOP OF CURB.

2" SAND, OR GROUND  
COVER PLANTING AS  
APPROVED. FINISHED  
GRADE TO BE LEVEL.

IRRIGATION LATERAL,  
BUBBLER OR  
EMITTER HEAD.  
PER CITY STD.  
L-6, DETAIL A

PERFORATED  
CAP

BRICK

DRAIN PIPE

GUTTER

CURB FACE

2" SAND, OR GROUND  
COVER PLANTING AS APPROVED BY THE  
PUBLIC WORKS DIRECTOR.  
FINISHED GRADE TO BE  
LEVEL. SEE SECTION X-X.

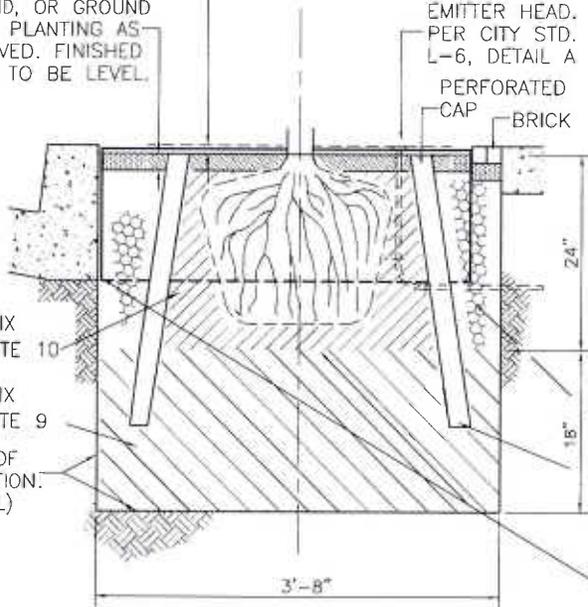
STD. COMMERCIAL SIDEWALK

**PLAN**

SOIL MIX  
SEE NOTE 10

SOIL MIX  
SEE NOTE 9

LIMITS OF  
EXCAVATION.  
(TYPICAL)



**SECTION X-X**

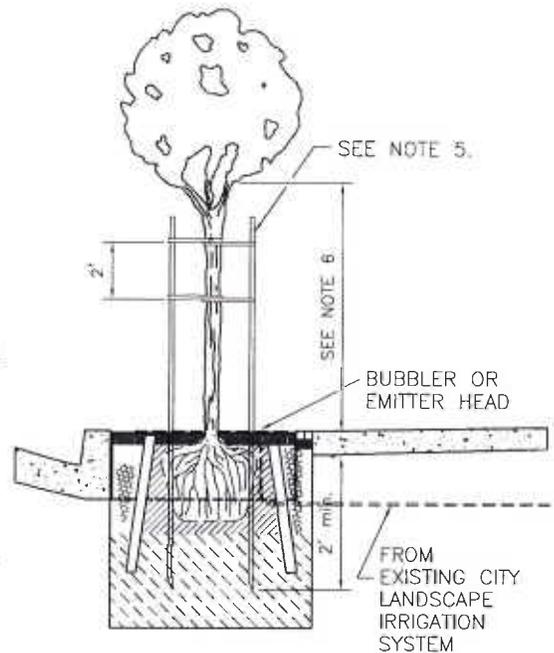
3/4" TO 1-1/4" ROCK.

4" ORANGEBURG PERFORATED DRAIN PIPE WITH PERFORATED  
CAP (TOP) TO MIN. 30" DEEP FROM FINISHED GRADE.  
(2 FOR EACH TREE) SEE NOTE 8.

3'x4'-8"x12" ROOT CONTROL BARRIER.  
SEE NOTE 7.

**NOTES:**

1. TREE VARIETY AND PLANTER SPACING TO CONFORM TO THE LIST OF APPROVED STREET TREES AND THE REQUIREMENTS OF THE CITY ENGINEER. ALL TREES PLANTED MUST HAVE STRONG CENTRAL LEADER.
2. INSTALLATION SUBJECT TO ENCROACHMENT PERMIT ISSUED BY THE PUBLIC WORKS DEPT.
3. IRRIGATION SYSTEM WITH DRIP EMITTER OR BUBBLER TO BE EXTENDED TO EACH TREE FROM CITY WATER SUPPLY.
4. TREE MAINTENANCE INCLUDING WATERING, FERTILIZING AND LEAF PICKUP TO BE THE RESPONSIBILITY OF THE DOWNTOWN STREETScape COMMITTEE AND UNDER THE SUPERVISION OF THE PUBLIC WORKS DIRECTOR.
5. TREES SHALL BE SECURELY TIED TO STAKES 2"x2"x8' IN SIZE. REDWOOD OR TREATED FOUNDATION GRADE WOOD PLACED ON PRE-VAILING WINDWARD SIDE OF TREE WITH RUBBER TIE STRAPS.
6. MINIMUM VERTICAL CLEARANCE TO LOWEST:
  - a. LIMB OVERHANGING PARKING LANE = 14 FT.
  - b. LIMB OVERHANGING SIDEWALK = 7 FT.
7. ROOT CONTROL BARRIER SHALL BE #LB 12-2 AS MANUFACTURED BY DEEP ROOT, 345 LORTON AVE #103, BURLINGAME, CA, OR AS APPROVED BY THE CITY ENGINEER. VERTICAL ROOT DEFLECTING RIBS ON PANEL MUST FACE INWARD, TOWARD ROOT BALL. TOP EDGE OF BARRIER TO BE 1/2" BELOW GRADE.
8. FILL IN AROUND PERFORATED PIPE BELOW ROOT CONTROL BARRIER WITH 3/4" TO 1-1/4" ROCK TO 4" AROUND OUTSIDE PIPE.
9. SOIL MIX TO CONSIST OF SUITABLE NATIVE SOIL.
10. PLANTING BACKFILL MIX SHALL CONSIST OF 60% NATIVE SOIL & 40% NITROLIZED WOOD SHAVINGS.



**ELEVATION**

NOT TO SCALE

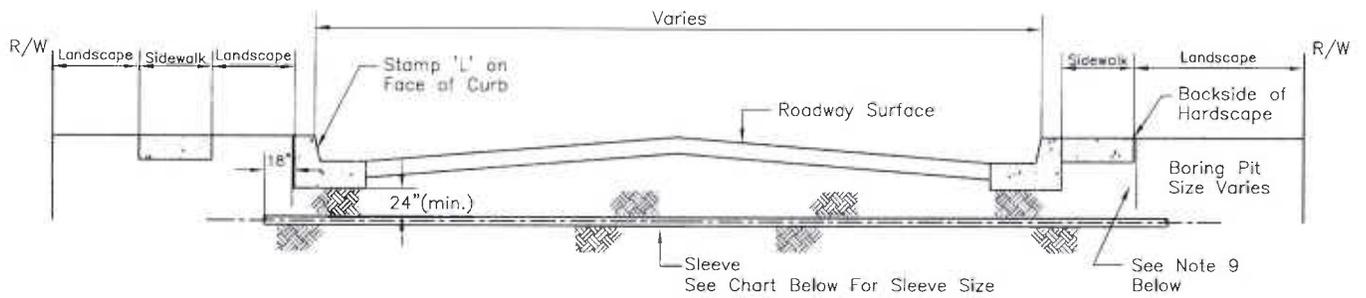
DOWNTOWN STREETScape  
TREE WELL STANDARD

REVISIONS:  
SEPT. 2016

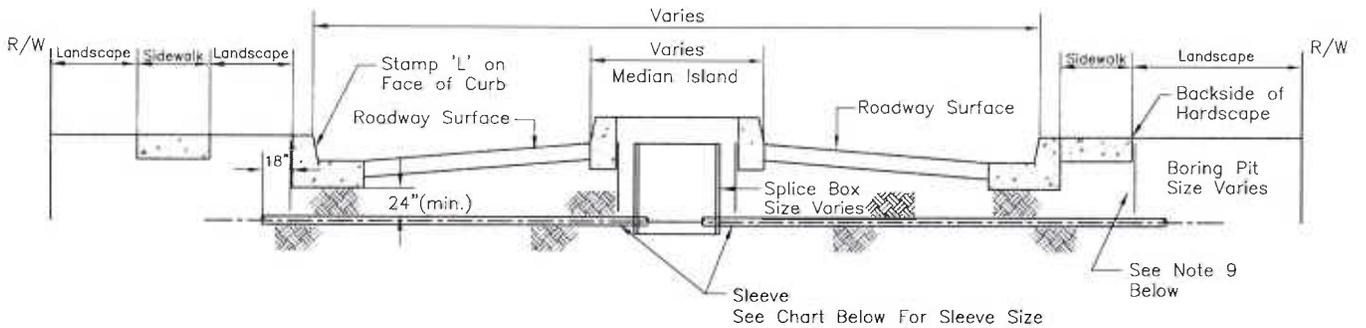
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CITY OF REEDLEY

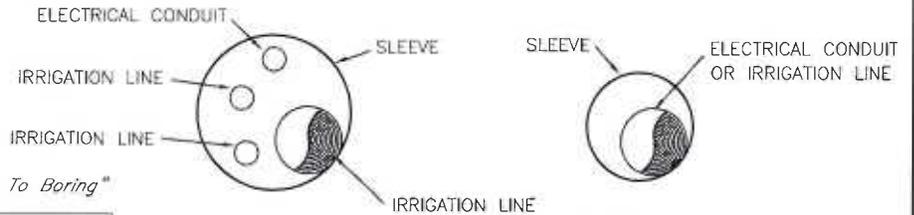
L-13



**IRRIGATION STREET CROSSOVER**



**IRRIGATION STREET CROSSOVER WITH LANDSCAPE MEDIAN**



*"Contractor Shall Contact Utility Companies Prior To Boring"*

IRRIGATION SLEEVE CHART			
INCREASE SLEEVE SIZE AS REQUIRED PER THIS CHART FOR MORE THAN ONE PIPE PER SLEEVE			
PVC PIPE SIZE	SLEEVE SIZE		
	UNDER 18 Ft.	OVER 18 Ft. UNDER 28 Ft.	OVER 28 Ft.
1/2"	1"	1-1/4"	1-1/2"
3/4"	1-1/4"	1-1/2"	2"
1"	1-1/2"	2"	2"
1"-1/4"	2"	2-1/2"	2-1/2"
1"-1/2"	2-1/2"	2-1/2"	3"
2"	3"	3"	3"
2-1/2"	3"	3"	4"
3"	4"	5"	5"
3-1/2"	5"	5"	6"
4"	5"	6"	6"
5"	6"	8"	8"
6"	8"	8"	8"

MORE THAN ONE PIPE PER SLEEVE

ONE PIPE PER SLEEVE

**NOTES:**

1. All piping and fittings shall be Schedule 40 PVC unless approved equal by the City Engineer.
2. Where conduit (sleeve only) is installed, one pull wire or rope shall be installed. The length of wire or rope shall extend 6 ft. past each end of the conduit. Each conduit (sleeve) shall be capped at each end.
3. All material used shall be new and free from imperfections.
4. See approved landscape/irrigation plans and legends for specific model numbers, size, manufacturer's, and performance requirements.
5. All transitions from galvanized pipe to PVC shall be constructed with Schedule 40 female adapter or approved equal by the City Engineer.
6. All irrigation installation shall be in accordance with City Standards, the latest edition of the Uniform Plumbing Code, manufacturer's recommendations, and as directed by the City Engineer.
7. Verify all measurements and specific site conditions in the field.
8. Route pipe(s) as required as per approved landscape/irrigation plans.
9. Install 2"x4"x24" redwood stakes at each end of sleeve at hardscape. Top of redwood stake 1-inch below top of hardscape.
10. The method used for boring shall be reviewed and approved by the City Engineer prior to start of operation.
11. Any and all changes shall be approved by the City Engineer prior to construction.

NOT TO SCALE

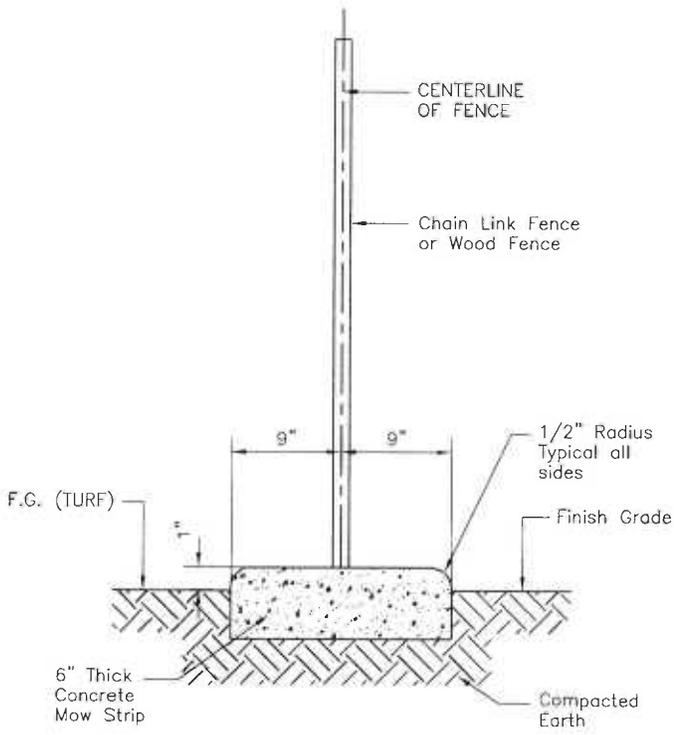
**IRRIGATION SLEEVE DETAILS**

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SEPT. 2016

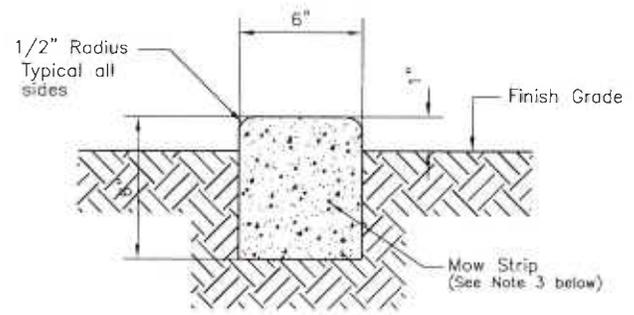
DRAWN BY: kjp

CITY OF REEDLEY

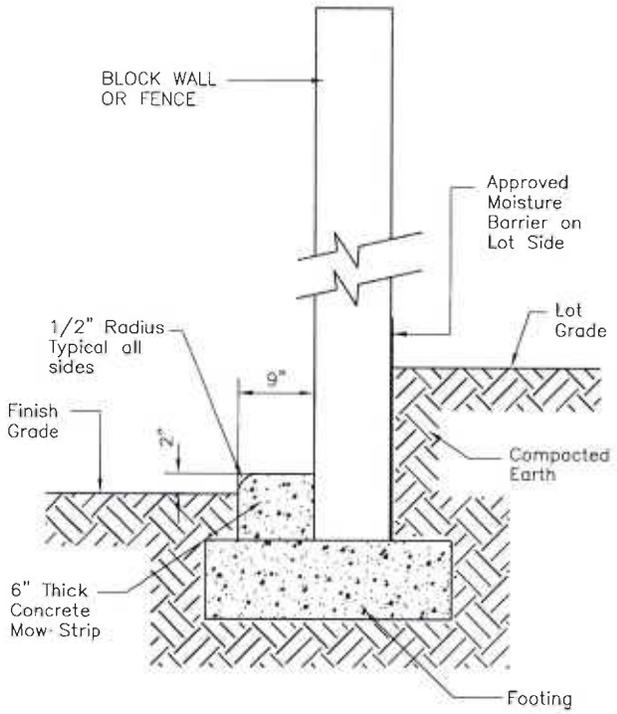
L-14



**MOW STRIP AT CHAIN LINK FENCE AND WOOD FENCE**



**CONCRETE MOW STRIP**



**MOW STRIP AT WALL AND FENCE**

- NOTES:**
1. Construct a deep score expansion joint at every fence post and every 15 ft. on all concrete surfaces.
  2. All areas to receive concrete shall be compacted to 90% relative density for a depth of 0.5 ft. as approved by the City Engineer.
  3. Top of mow strip shall be 1-inch above finished grade when adjacent to turf and 2-inches above finished grade when adjacent to planter.
  4. Where the grade on the lot side of the wall is higher than the grade on the street side of the wall, water proofing is required. See Standard Plan L-10 for water proofing requirements.
  5. Any and all changes from this standard detail sheet shall be approved by the City Engineer prior to construction.
  6. All concrete shall be Class 'B' in accordance with Section 16 of the City Standard Specifications and as approved by the City Engineer.

NOT TO SCALE

**CONCRETE MOWSTRIP DETAILS**

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CITY OF REEDLEY

L-15

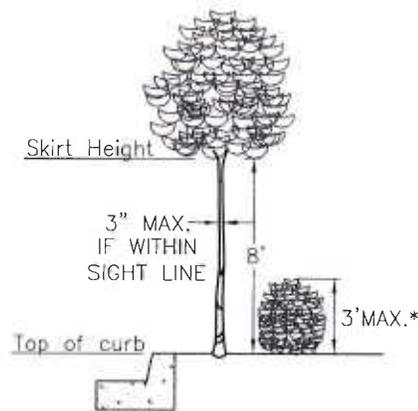
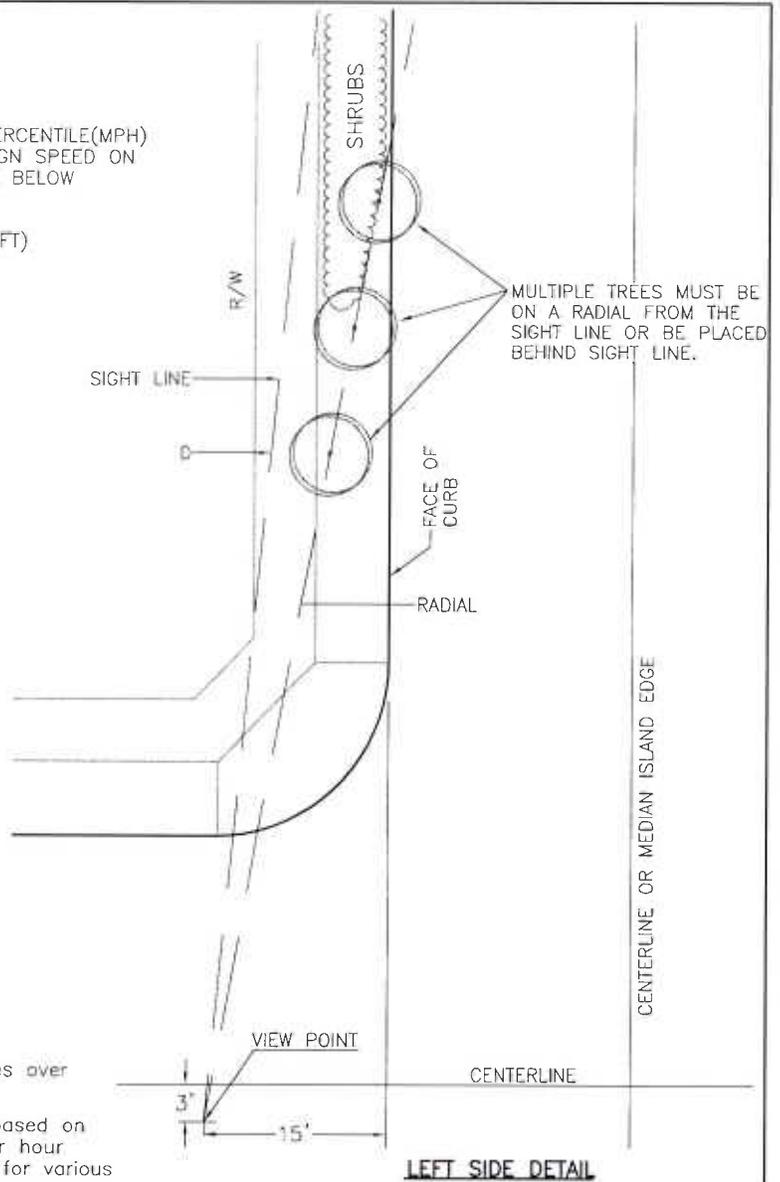


A=12' WITH PARKING  
 A= 6' WITHOUT PARKING  
 C=10- FEET/MPH  
 S=CRITICAL SPEED-85th PERCENTILE(MPH)  
 OR IF NOT KNOWN, DESIGN SPEED ON  
 THRU STREET PER TABLE BELOW  
 FORMULA:  
 $D = S \times C$   
 WHERE, D=SIGHT DISTANCE(FT)

DESIGN SPEEDS TABLE		
LOCAL STREET	57-60' R/W	25 MPH
MAJOR COLLECTOR	84' R/W	45 MPH
MAJOR ARTERIAL	110' R/W	55 MPH

**NOTES:**

1. Trees and shrubs within sight line and tree canopies over sidewalks shall conform to the detail below.
2. Sight distance at controlled intersections shall be based on a sight distance equal to design speed(s) in miles per hour multiplied by a factor of 10. See Design Speeds Table for various street classifications.
3. Corner sight distance is measured from a point on the minor road 15' from the edge of the major road pavement, and 3' right of the left edge of the lane under consideration. Said point is viewed from a height of 3.5' on the minor road to a height of 4.25' on the major road.
4. The location of the object to the left is 12' from the nearest edge of the major road (6' with parking prohibited). Parking shall be assumed to be prohibited on major arterial streets or as directed by the City Engineer.
5. The location of the object to the right is to be measured at 1/2 the major road width plus 3' from the nearest edge of the major street.
6. Landscaping over 3' in height above top of curb shall not be placed within the line of sight. All landscaping must be maintained at a height of 3' or less with the exception of trees.
7. Trees are permitted in the line of sight for controlled intersections provided that the skirt height (bottom of foliage) is maintained 8' above the adjacent top of curb. In the event more than 1 tree is placed in the sight line area they must be placed on a radial from the view point.
8. Any and all changes from this standard shall be designed by a traffic engineer and submitted to the City Engineer for review and approval prior to any type of construction.



\* Measure from top of curb for solid objects, i.e. fences, walls, etc.

**TREE HEIGHT DETAIL**

NOT TO SCALE

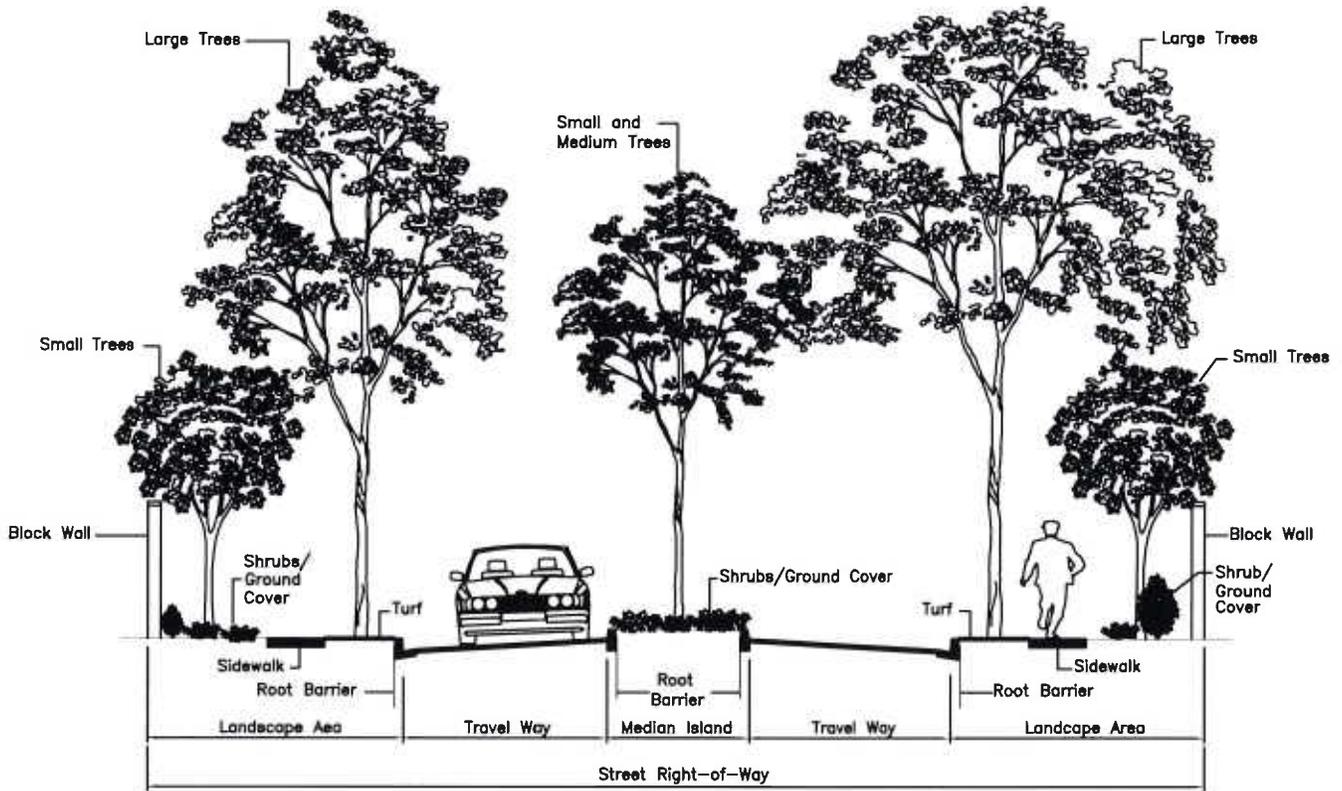
**TYPICAL SIGHT DISTANCE REQUIREMENTS FOR CONTROLLED INTERSECTION WITH LANDSCAPING**

REVISIONS:  
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CITY OF REEDLEY

L-16



Landscaping shall be provided on major arterial, arterials and collector streets on which is placed a requirement for construction of masonry block walls, median islands, or other such areas as required by the City of Reedley.

Major arterial streets will require a landscape area with a minimum width of 21 feet including the masonry block wall behind the City standard sidewalk.

Arterials & Collector streets will require a landscaped area with a minimum width of 17 feet including the width of the masonry block wall behind the City standard sidewalk.

NOT TO SCALE

LANDSCAPING ON  
MAJOR ARTERIALS AND  
MAJOR COLLECTOR STREETS

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CITY OF REEDLEY

L-17

## LARGE TREES

### Greater than 8-foot Planter Area

<i>Scientific name</i> Common name	<i>Tree well</i>	<i>Parkway</i>	<i>Spacing</i>	<i>Tree size</i>	<i>Street tree</i>	<i>Riparian/ Native</i>	<i>Park</i>
<i>Acer rubrum</i> 'Red Sunset' Red Maple 'Red Sunset'	4x4	6' - 8'	35' - 40'	large	X		X
<i>Ginkgo biloba</i> 'Autumn Gold' Ginkgo 'Autumn Gold'	4.5' x 4.5'	6' - 8'	25' - 30'	large	X		X
<i>Ginkgo biloba</i> 'Magyar' Ginkgo 'Magyar'	4.5' x 4.5'	6' - 8'	25' - 30'	large	X		X
<i>Ginkgo biloba</i> 'Saratoga' Ginkgo 'Saratoga'	4.5' x 4.5'	6' - 8'	25' - 30'	large	X		X
<i>Platanus acerfolia</i> 'Bloodgood' London Plant Tree	4'x4'	4' - 6'	35' - 40'	large	X		X
<i>Platanus racemosa</i> California Sycamore	5' x 5'	6' - 8'	35' - 40'	large		X	
<i>Quercus agrifolia</i> Coastal Live Oak	5' x 5'	6' - 8'	35' - 40'	large	X	X	X
<i>Quercus frainetto</i> Forest Green Oak	4' x 4"	5' - 8'	35' - 40'	large	X		X
<i>Quercus lobata</i> Valley Oak	5' x 5'	5' - 8'	35' - 40'	large	X	X	X
<i>Quercus muehlenbergii</i> Chinkapin oak	5' x 5'	6' - 8'	35' - 40'	large	X		X
<i>Quercus phellos</i> Willow oak	5' x 5'	6' - 8'	35' - 40'	large	X		X
<i>Quercus shumardii</i> Shumard Oak	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Quercus suber</i> Cork Oak	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Quercus virginiana</i> Southern Live Oak	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Quercus wislizenii</i> Interior Live Oak	5' x 5'	5' - 8'	35' - 40'	large	X	X	X
<i>Ulmus carpinifolia</i> x <i>U.</i> <i>parvifolia</i> Frontier elm	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Ulmus parvifolia</i> Chinese Elm 'Allee'	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Zelkova serrata</i> 'Green Vase' Green Vase Zelkova	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Zelkova serrata</i> 'Musashino' Musashino Zelkova	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Zelkova serrata</i> 'Village Green' Village Green Zelkova	5' x 5'	5' - 8'	35' - 40'	large	X		X

LARGE STREET TREES

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CITY OF REEDLEY

L-18

## MEDIUM TREES

### 5-foot to 8-foot Planter Area

<i>Scientific name</i> Common name	<i>Tree well</i>	<i>Parkway</i>	<i>Spacing</i>	<i>Tree size</i>	<i>Street tree</i>	<i>Riparian/ Native</i>	<i>Park</i>
<i>Acer buergeranum</i> Trident Maple	3' X 3'	3' - 6'	25'-30'	medium	X		X
<i>Koelreuteria paniculata</i> Goldenrain	4.5' x 4.5'	4' - 6'	25' - 30'	medium	X		X
<i>Laurus nobilis 'Saratoga'</i> Laural Saratoga	3' X 3'	3' - 6'	25'-30'	medium	X		X
<i>Magnolia 'Vulcan'</i> Vulcan Magnolia	3' x 3'	3' - 6'	15' - 20'	medium	X		X
<i>Magnolia 'Galaxy'</i> Galaxy Magnolia	3' x 3'	3' - 6'	15' - 20'	medium	X		X
<i>Nyssa sylvatica 'forum'</i> Tupelo'	4'x4'	4' - 6'	25' - 30'	medium	X		X
<i>Pistacia Chinesis</i> Chinese Pistache	4'x4'	4' - 6'	25' - 30'	medium	X		X
<i>Pistacia Chinesis</i> Chinese Pistache 'Keith Davey'	4'x4'	4' - 6'	25' - 30'	medium	X		X
<i>Pyrus kawakamii</i> Evergreen Pear	4'x4'	4' - 6'	25' - 30'	medium	X		X
<i>Zelkova serrata 'Wireless'</i> Wireless zelkova	5' x 5'	5' - 8'	35' - 40'	medium	X		X

MEDIUM STREET TREES

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CITY OF REEDLEY

L-19

**SMALL TREES**  
**Less than 5-foot Planter Area**

<i>Scientific name</i> Common name	<i>Tree well</i>	<i>Parkway</i>	<i>Spacing</i>	<i>Tree size</i>	<i>Street tree</i>	<i>Riparian/ Native</i>	<i>Park</i>
<i>Cercis canadensis</i> Eastern Redbud	3' x 3'	2' - 4'	20' - 30'	small	X		X
<i>Cercis mexicana</i> Mexicana Redbud	3' x 3'	2' - 4'	20' - 30'	small	X		X
<i>Cercis canadensis</i> 'Oklahoma' Eastern Redbud 'Oklahoma'	3' x 3'	2' - 4'	20' - 30'	small	X		X
<i>Lagerstroemia indica</i> Crape myrtle	3' X 3'	3' - 6'	25'-30'	small	X		X
<i>Magnolia 'Rustica Rubran'</i> Rustica Rubran Magnolia	3' x 3'	3' - 6'	15' - 20'	small	X		X

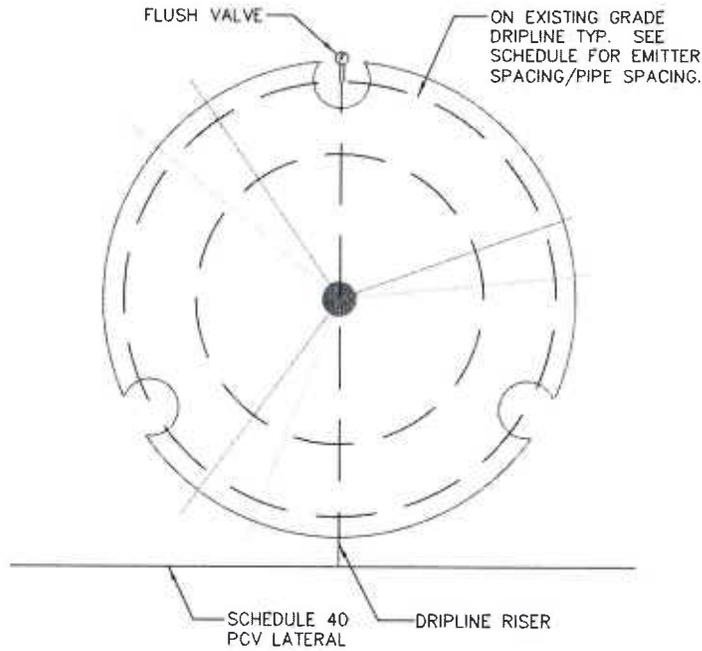
SMALL STREET TREES

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SEPT. 2016

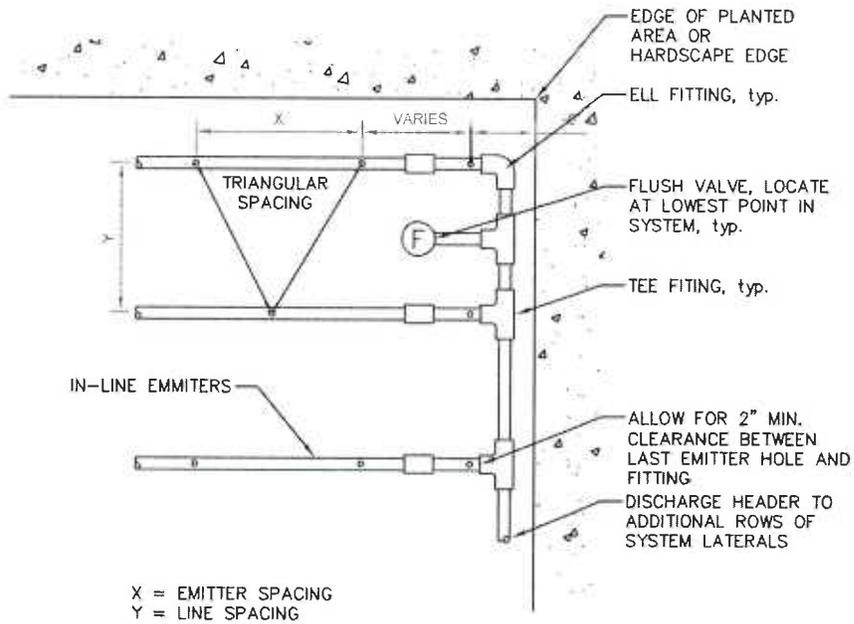
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CITY OF REEDLEY

L-20



AT GRADE DRIP LINE - EX TREE



X = EMITTER SPACING  
Y = LINE SPACING

DRIP LINE LAYOUT

NOT TO SCALE

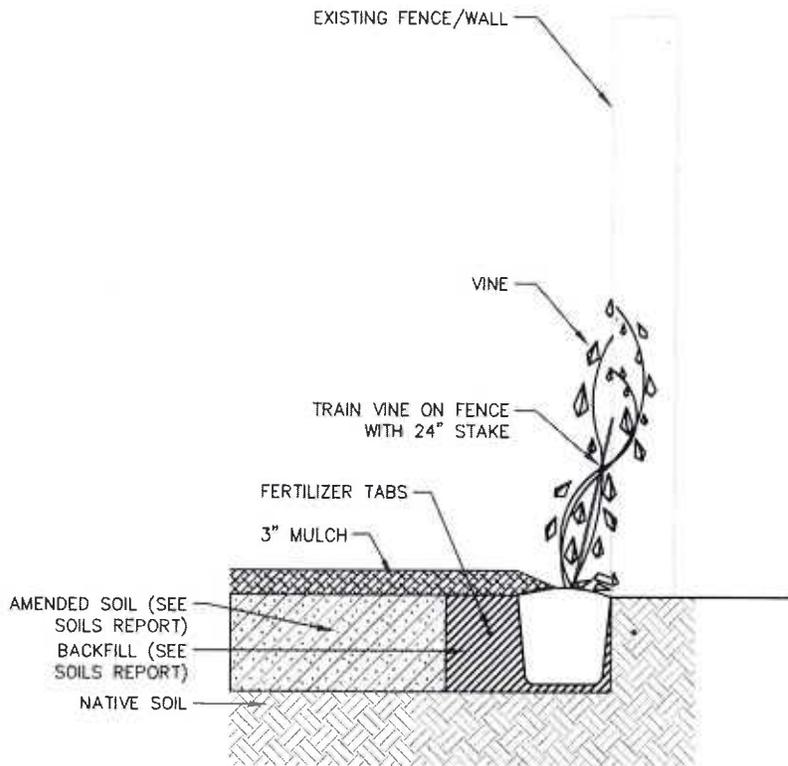
DRIP LINES

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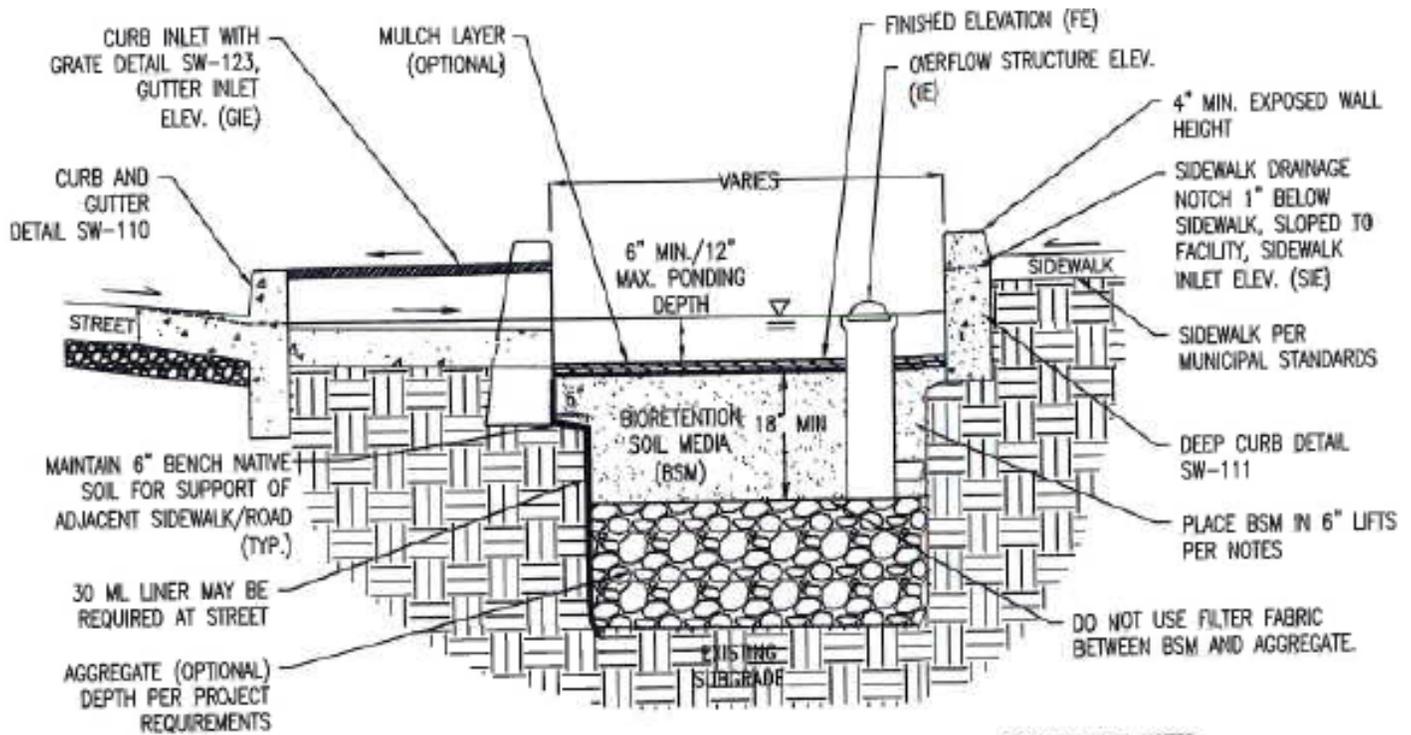
L-21



VINE PLANTING ON FENCE - AMENDED SOIL

NOT TO SCALE

VINE PLANTING	REVISIONS: SEPT. 2016	CITY OF REEDLEY
	DRAWN BY: kjp	L-22



**DESIGN NOTES**

1. ADDITIONAL DESIGN GUIDANCE PROVIDED IN BIORETENTION TECHNICAL SPECIFICATIONS DOCUMENT.
2. OVERFLOW STRUCTURE REQUIRED FOR IN-LINE SYSTEMS WITHOUT OVERFLOW BYPASS, DETAIL SW-140.
3. PROVIDE SPOT ELEVATIONS AT INLETS ON CIVIL PLANS (FE, OE, GIE, SIE). SEE DETAIL SW-120.
4. EDGE CONDITION WILL VARY FOR NEW AND RETROFIT PROJECTS. CURB, WALL, AND SIDEWALK DETAILS MAY BE MODIFIED FOR PROJECT BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY THE CITY ENGINEER.
5. IF CHECK DAMS ARE NEEDED, SEE CONCRETE CHECK DAM DETAIL SW-131.
6. PROVIDE MONITORING WELL IN EACH FACILITY, PER BIORETENTION TECHNICAL SPECIFICATIONS.
7. IF CALTRANS CLASS 2 PERMEABLE IS NOT AVAILABLE, SUBSTITUTE CLASS 3 PERMEABLE WITH AN OVERLYING 3" DEEP LAYER OF 3/4" (NO. 4) OPEN-GRADED AGGREGATE.
8. BIORETENTION SOIL MEDIA (BSM) SPECIFICATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
9. PLANTING DESIGN AND IRRIGATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
10. MULCH (OPTIONAL) PER BIORETENTION TECHNICAL SPECIFICATIONS.
11. LOCATE ENERGY DISSIPATION COBBLE ONLY AS SPECIFIED IN INLET DETAILS - AVOID DECORATIVE USE.

**CONSTRUCTION NOTES**

1. SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BSM.
2. FACILITY EXCAVATION TO ALLOW FOR SPECIFIED SOIL AND MULCH DEPTHS TO ACHIEVE FINISHED ELEVATIONS ON CIVIL PLANS.
3. COMPACT EACH 6" LIFT OF BSM WITH LANDSCAPE ROLLER OR BY LIGHTLY WETTING. IF WETTING, ALLOW TO DRY OVERNIGHT BEFORE PLANTING.
4. DO NOT WORK WITHIN BIORETENTION AREA DURING RAIN OR UNDER WET CONDITIONS.
5. KEEP HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.
6. LAYBACK SLOPE AS FLAT AS POSSIBLE UNTIL TOP WIDTH PRODUCES 1:1 SLOPE & 24" BOTTOM WIDTH. AS PLANTER GETS WIDER MAINTAIN 1:1 SLOPE AND INCREASE BOTTOM WIDTH WIDER THAN 24". ALTERNATIVE TRENCH WALL CONFIGURATIONS MAY BE PROPOSED BY THE PROJECT GEOTECHNICAL ENGINEER (I.E. VERTICAL SHORING, REINFORCED TRENCH SIDEWALL) THAT DON'T REQUIRE SIDEWALK SUPPORT FROM THE LIGHTLY COMPACTED BSM.

NOT TO SCALE

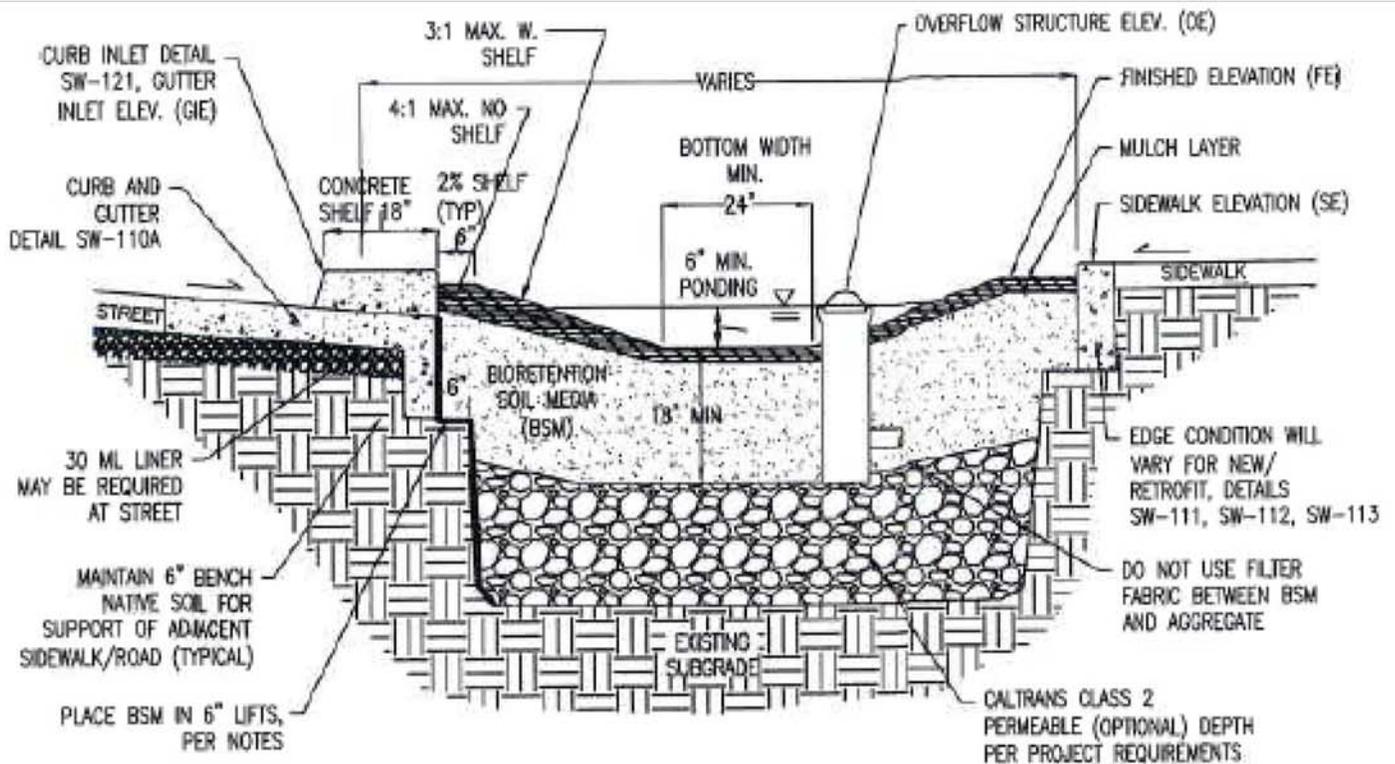
**STREET BIORETENTION FACILITY**  
 FLAT/PLANTER, ON-STREET PARKING, SIDEWALK, WITHOUT UNDERDRAIN

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DRAWN BY: kjp

CITY OF REEDLEY

LID-1



**DESIGN NOTES**

1. ADDITIONAL DESIGN GUIDANCE PROVIDED IN BIORETENTION TECHNICAL SPECIFICATIONS DOCUMENT.
2. OVERFLOW STRUCTURE REQUIRED FOR IN-LINE SYSTEMS WITHOUT OVERFLOW BYPASS, DETAIL SW-140.
3. PROVIDE SPOT ELEVATIONS AT INLETS ON CIVIL PLANS (FE, OE, GIE, SE). SEE DETAIL SW-121.
4. MAX. LONGITUDINAL SLOPE 6% WITH CHECK DAMS. SEE DETAILS SW-130, SW-131.
5. EDGE CONDITION WILL VARY FOR NEW AND RETROFIT PROJECTS. CURB AND SIDEWALK DETAILS MAY BE MODIFIED FOR PROJECT BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY THE CITY ENGINEER.
6. PROVIDE MONITORING WELL IN EACH FACILITY, PER BIORETENTION TECHNICAL SPECIFICATIONS.
7. IF CALTRANS CLASS 2 PERMEABLE IS NOT AVAILABLE, SUBSTITUTE CLASS 3 PERMEABLE WITH AN OVERLYING 3" DEEP LAYER OF 3/4" (NO. 4) OPEN-GRADED AGGREGATE.
8. BIORETENTION SOIL MEDIA (BSM) SPECIFICATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
9. PLANTING DESIGN AND IRRIGATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
10. MULCH (OPTIONAL) PER BIORETENTION TECHNICAL SPECIFICATIONS.
11. LOCATE ENERGY DISSIPATION COBBLE ONLY AS SPECIFIED IN INLET DETAILS - AVOID DECORATIVE USE.

**CONSTRUCTION NOTES**

1. SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BSM.
2. FACILITY EXCAVATION TO ALLOW FOR SPECIFIED SOIL AND MULCH DEPTHS TO ACHIEVE FINISHED ELEVATIONS ON CIVIL PLANS.
3. COMPACT EACH 6" LIFT OF BSM WITH LANDSCAPE ROLLER OR BY LIGHTLY WETTING. IF WETTING, ALLOW TO DRY OVERNIGHT BEFORE PLANTING.
4. DO NOT WORK WITHIN BIORETENTION AREA DURING RAIN OR UNDER WET CONDITIONS.
5. KEEP HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.
6. LAYBACK SLOPE AS FLAT AS POSSIBLE UNTIL TOP WIDTH PRODUCES 1:1 SLOPE & 24" BOTTOM WIDTH. AS PLANTER GETS WIDER MAINTAIN 1:1 SLOPE AND INCREASE BOTTOM WIDTH WIDER THAN 24". ALTERNATIVE TRENCH WALL CONFIGURATIONS MAY BE PROPOSED BY THE PROJECT GEOTECHNICAL ENGINEER (I.E. VERTICAL SHORING, REINFORCED TRENCH SIDEWALL) THAT DON'T REQUIRE SIDEWALK SUPPORT FROM THE LIGHTLY COMPACTED BSM.

NOT TO SCALE

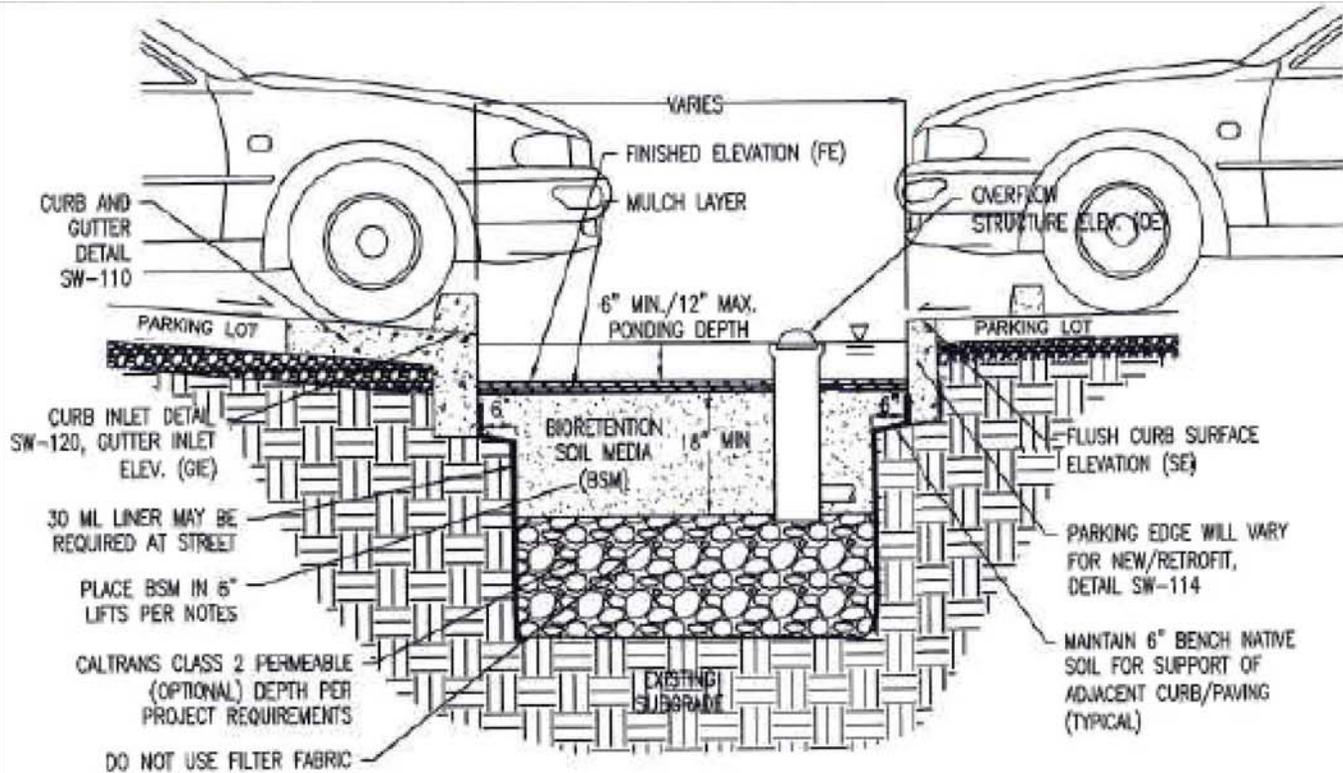
**STREET BIORETENTION FACILITY**  
 SLOPE SIDED, ON-STREET PARKING SIDEWALK, WITHOUT UNDERDRAIN

REVISIONS:  
 JAN. 2016

DRAWN BY: kjp

CITY OF REEDLEY

LID-2



**DESIGN NOTES**

1. ADDITIONAL DESIGN GUIDANCE PROVIDED IN BIORETENTION TECHNICAL SPECIFICATIONS DOCUMENT.
2. OVERFLOW STRUCTURE REQUIRED FOR IN-LINE SYSTEMS WITHOUT OVERFLOW BYPASS, DETAIL SW-140.
3. PROVIDE SPOT ELEVATIONS AT INLETS ON CIVIL PLANS (FE, OE, GIE, SE). SEE DETAIL SW-120.
4. EDGE CONDITION WILL VARY FOR PARKING LOT PROJECTS. SEE PARKING LOT EDGE OPTIONS DETAILS, SW-114. CURB AND FLUSH EDGE DETAILS MAY BE MODIFIED FOR PROJECT BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY THE CITY ENGINEER.
5. IF CHECK DAMS ARE NEEDED, SEE CONCRETE CHECK DAM DETAIL SW-131.
6. PROVIDE MONITORING WELL IN EACH FACILITY, PER BIORETENTION TECHNICAL SPECIFICATIONS.
7. IF CALTRANS CLASS 2 PERMEABLE IS NOT AVAILABLE, SUBSTITUTE CLASS 3 PERMEABLE WITH AN OVERLYING 3" DEEP LAYER OF 3/4" (NO. 4) OPEN-GRADED AGGREGATE.
8. BIORETENTION SOIL MEDIA (BSM) SPECIFICATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
9. PLANTING DESIGN AND IRRIGATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
10. MULCH (OPTIONAL) PER BIORETENTION TECHNICAL SPECIFICATIONS.
11. LOCATE ENERGY DISSIPATION COBBLE ONLY AS SPECIFIED IN INLET DETAILS - AVOID DECORATIVE USE.

**CONSTRUCTION NOTES**

1. SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BSM.
2. FACILITY EXCAVATION TO ALLOW FOR SPECIFIED SOIL AND MULCH DEPTHS TO ACHIEVE FINISHED ELEVATIONS ON CIVIL PLANS.
3. COMPACT EACH 6" LIFT OF BSM WITH LANDSCAPE ROLLER OR BY LIGHTLY WETTING. IF WETTING, ALLOW TO DRY OVERNIGHT BEFORE PLANTING.
4. DO NOT WORK WITHIN BIORETENTION AREA DURING RAIN OR UNDER WET CONDITIONS.
5. KEEP HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.
6. LAYBACK SLOPE AS FLAT AS POSSIBLE UNTIL TOP WIDTH PRODUCES 1:1 SLOPE & 24" BOTTOM WIDTH. AS PLANTER GETS WIDER MAINTAIN 1:1 SLOPE AND INCREASE BOTTOM WIDTH WIDER THAN 24". ALTERNATIVE TRENCH WALL CONFIGURATIONS MAY BE PROPOSED BY THE PROJECT GEOTECHNICAL ENGINEER (I.E. VERTICAL SHORING, REINFORCED TRENCH SIDEWALL) THAT DON'T REQUIRE SIDEWALK SUPPORT FROM THE LIGHTLY COMPACTED BSM.

NOT TO SCALE

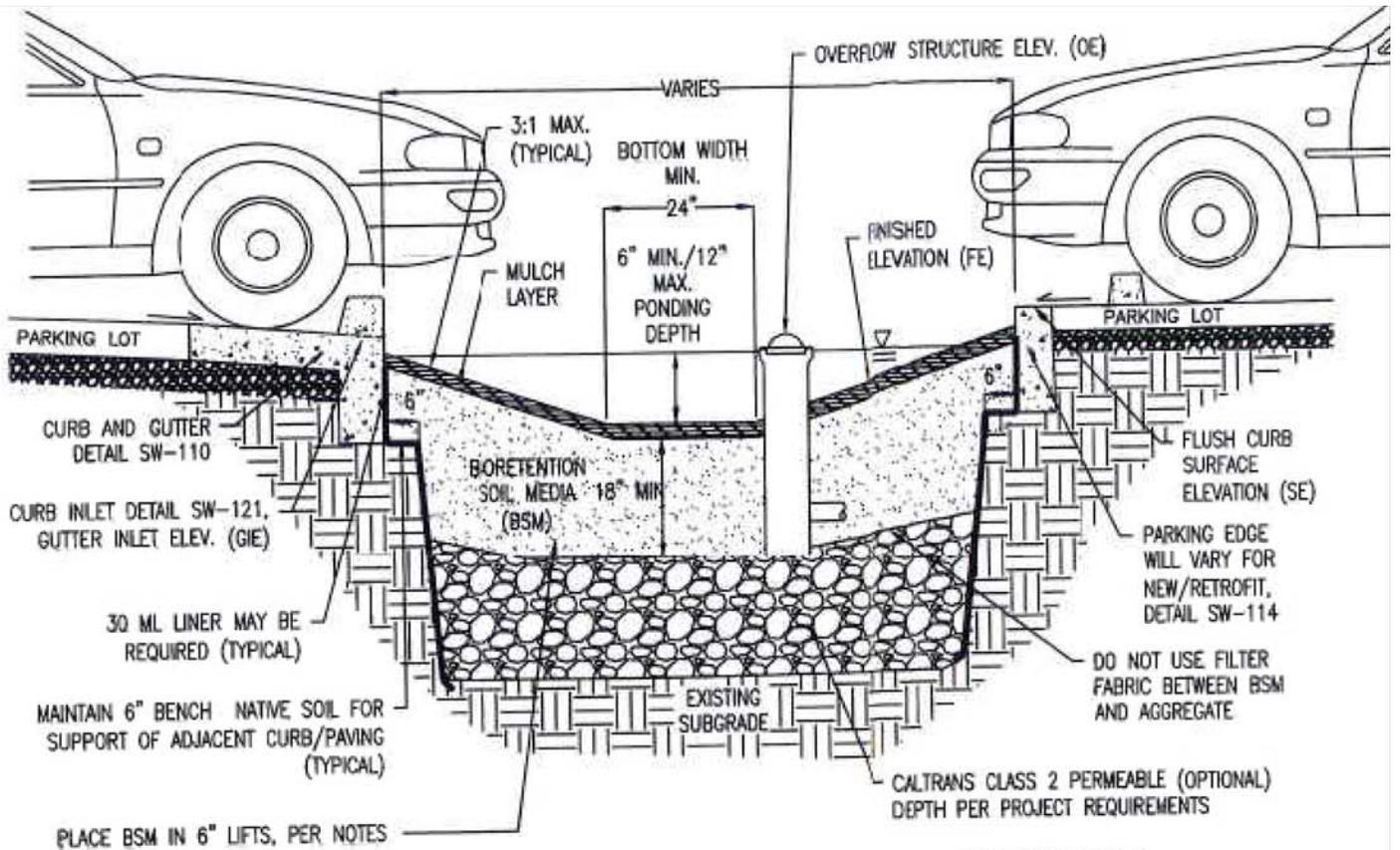
PARKING LOT  
BIORETENTION FACILITY  
FLAT/PLANTER WITHOUT UNDERDRAIN

REVISIONS:  
JAN. 2016

DRAWN BY: kjp

CITY OF REEDLEY

LID-3



**DESIGN NOTES**

1. ADDITIONAL DESIGN GUIDANCE PROVIDED IN BIORETENTION TECHNICAL SPECIFICATIONS DOCUMENT.
2. OVERFLOW STRUCTURE REQUIRED FOR IN-LINE SYSTEMS WITHOUT OVERFLOW BYPASS, DETAIL SW-140.
3. PROVIDE SPOT ELEVATIONS AT INLETS ON CIVIL PLANS (FE, OE, GIE, SE). SEE DETAIL SW-121.
4. MAX. LONGITUDINAL SLOPE 6% WITH CHECK DAMS. SEE DETAILS SW-130, SW-131.
4. EDGE CONDITION WILL VARY FOR PARKING LOT PROJECTS. SEE PARKING LOT EDGE OPTIONS DETAILS, SW-114. CURB AND FLUSH EDGE DETAILS MAY BE MODIFIED FOR PROJECT BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY THE CITY ENGINEER.
5. PROVIDE MONITORING WELL IN EACH FACILITY, PER BIORETENTION TECHNICAL SPECIFICATIONS.
6. IF CALTRANS CLASS 2 PERMEABLE IS NOT AVAILABLE, SUBSTITUTE CLASS 3 PERMEABLE WITH AN OVERLYING 3" DEEP LAYER OF 3/4" (NO. 4) OPEN-GRADED AGGREGATE.
7. BIORETENTION SOIL MEDIA (BSM) SPECIFICATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
8. PLANTING DESIGN AND IRRIGATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
9. MULCH (OPTIONAL) PER BIORETENTION TECHNICAL SPECIFICATIONS.
10. LOCATE ENERGY DISSIPATION COBBLE ONLY AS SPECIFIED IN INLET DETAILS - AVOID DECORATIVE USE.

**CONSTRUCTION NOTES**

1. SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BSM.
2. FACILITY EXCAVATION TO ALLOW FOR SPECIFIED SOIL AND MULCH DEPTHS TO ACHIEVE FINISHED ELEVATIONS ON CIVIL PLANS.
3. COMPACT EACH 6" LIFT OF BSM WITH LANDSCAPE ROLLER OR BY LIGHTLY WETTING. IF WETTING, ALLOW TO DRY OVERNIGHT BEFORE PLANTING.
4. DO NOT WORK WITHIN BIORETENTION AREA DURING RAIN OR UNDER WET CONDITIONS.
5. KEEP HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.
6. LAYBACK SLOPE AS FLAT AS POSSIBLE UNTIL TOP WIDTH PRODUCES 1:1 SLOPE & 24" BOTTOM WIDTH. AS PLANTER GETS WIDER MAINTAIN 1:1 SLOPE AND INCREASE BOTTOM WIDTH WIDER THAN 24". ALTERNATIVE TRENCH WALL CONFIGURATIONS MAY BE PROPOSED BY THE PROJECT GEOTECHNICAL ENGINEER (I.E. VERTICAL SHORING, REINFORCED TRENCH SIDEWALL) THAT DON'T REQUIRE SIDEWALK SUPPORT FROM THE LIGHTLY COMPACTED BSM.

NOT TO SCALE

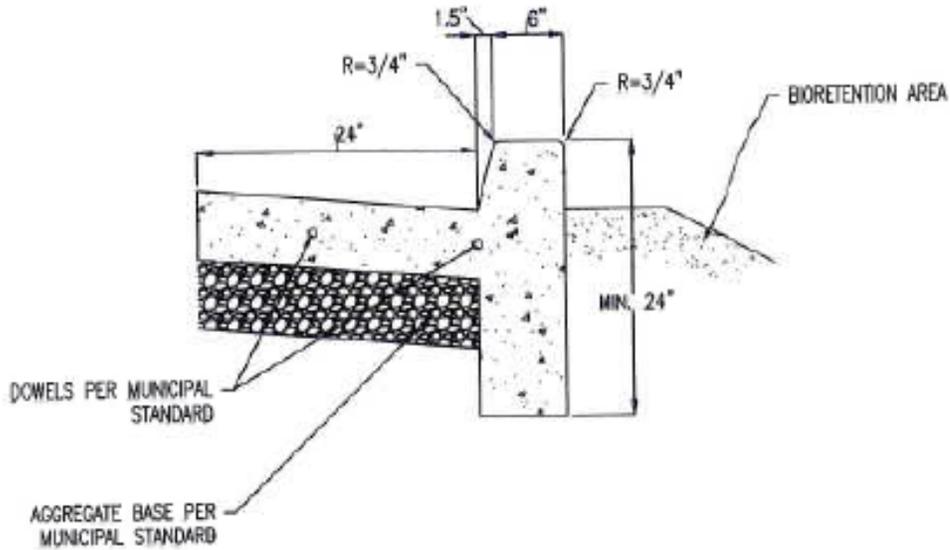
PARKING LOT  
BIORETENTION FACILITY  
SLOPE SIDED, WITHOUT UNDERDRAIN

REVISIONS:  
JAN. 2016

DRAWN BY: kjp

CITY OF REEDLEY

LID-4



**DESIGN NOTES**

1. SPECIAL DESIGN CONSIDERATION OR STRUCTURAL REVIEW MAY BE REQUIRED FOR LONGER PLANTER WALL SPANS. STEEL REINFORCEMENT OR ADDITIONAL CONCRETE CHECK DAMS MAY BE NEEDED FOR STABILITY.
2. EDGE CONDITION WILL VARY FOR NEW AND RETROFIT PROJECTS. CURB, GUTTER, AND WALL DETAILS MAY BE MODIFIED BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY CITY ENGINEER.
3. CONCRETE AND EXPANSION JOINTS SHALL MEET THE REQUIREMENTS OF THE MUNICIPALITY.

**CONSTRUCTION NOTES**

1. FINISH ALL EXPOSED CONCRETE SURFACES.
2. LAYBACK SLOPE AS FLAT AS POSSIBLE UNTIL TOP WIDTH PRODUCES 1:1 SLOPE & 24" BOTTOM WIDTH. AS PLANTER GETS WIDER MAINTAIN 1:1 SLOPE AND INCREASE BOTTOM WIDTH WIDER THAN 24". ALTERNATIVE TRENCH WALL CONFIGURATIONS MAY BE PROPOSED BY THE PROJECT GEOTECHNICAL ENGINEER (I.E. VERTICAL SHORING, REINFORCED TRENCH SIDEWALL) THAT DON'T REQUIRE SIDEWALK SUPPORT FROM THE LIGHTLY COMPACTED BSM.

NOT TO SCALE

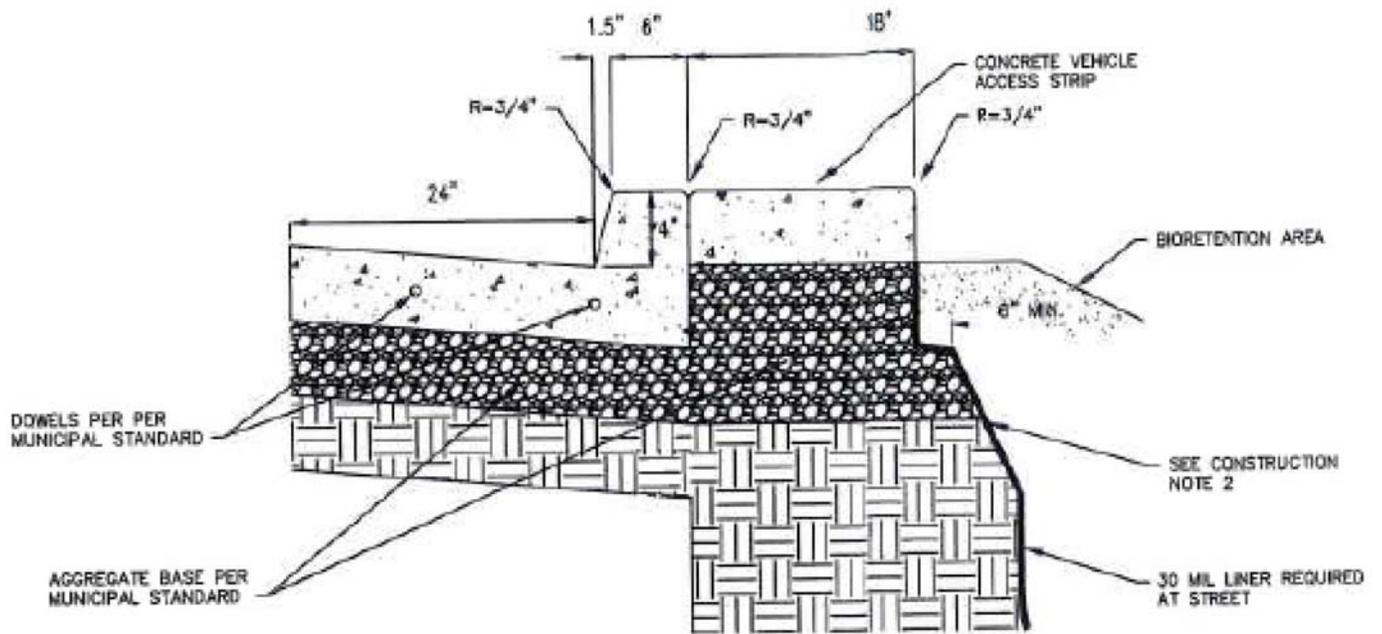
CURB & GUTTER

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JAN. 2016

DRAWN BY: kjp

CITY OF REEDLEY

LID-5



**DESIGN NOTES**

1. SPECIAL CONCRETE AND EXPANSION JOINS SHALL MEET THE REQUIREMENTS OF MUNICIPAL STANDARDS
2. PROVIDE OPENINGS IN CURB (12" WIDE) TO ALLOW FOR SURFACE DRAINAGE TO BIORETENTION AREAS IF DEDICATED INLET NOT USED. SPACING TO BE DETERMINED BY PROJECT ENGINEER BASED ON DESIGN STORM TO MINIMIZE PONDING AGAINST CURB FOR MEDIAN ISLAND APPLICATION.

**CONSTRUCTION NOTES**

1. FINISH ALL EXPOSED CONCRETE SURFACES.
2. LAYBACK SLOPE AS FLAT AS POSSIBLE UNTIL TOP WIDTH PRODUCES 1:1 SLOPE & 24" BOTTOM WIDTH. AS PLANTER GETS WIDER MAINTAIN 1:1 SLOPE AND INCREASE BOTTOM WIDTH WIDER THAN 24". ALTERNATIVE TRENCH WALL CONFIGURATIONS MAY BE PROPOSED BY THE PROJECT GEOTECHNICAL ENGINEER (I.E. VERTICAL SHORING, REINFORCED TRENCH SIDEWALL) THAT DON'T REQUIRE SIDEWALK SUPPORT FROM THE LIGHTLY COMPACTED BSM.

NOT TO SCALE

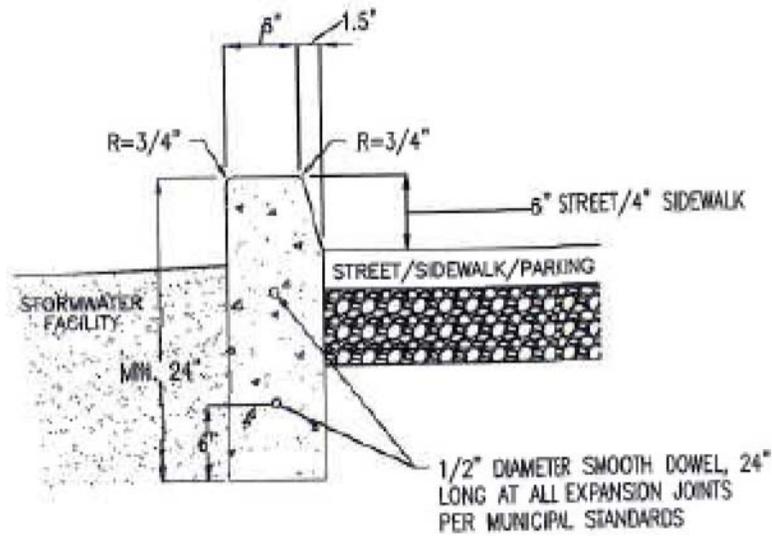
CURB & GUTTER

REVISIONS:  
JAN. 2016

DRAWN BY: kjp

CITY OF REEDLEY

LID-6



#### DESIGN NOTES

1. SPECIAL DESIGN CONSIDERATION OR STRUCTURAL REVIEW MAY BE REQUIRED FOR LONGER SWALE EDGE SPANS. STEEL REINFORCEMENT OR ADDITIONAL CONCRETE CHECK DAMS MAY BE NEEDED FOR STABILITY.
2. WHEN SIDEWALK DRAINS TO PLANTER, PROVIDE 4" - 6" WIDE NOTCH OPENINGS, 1" BELOW SIDEWALK, SLOPED TO FACILITY, PER BIORETENTION PLANTER DETAILS. SPACE OPENINGS TO CONVEY FLOWS. PROVIDE MINIMUM 2" COVER BETWEEN DRAINAGE NOTCH OPENING AND DOWELS.
3. CONCRETE AND EXPANSION JOINTS SHALL MEET THE REQUIREMENTS OF THE CITY.

#### CONSTRUCTION NOTES

1. FINISH ALL EXPOSED CONCRETE SURFACES.
2. LAYBACK SLOPE AS FLAT AS POSSIBLE UNTIL TOP WIDTH PRODUCES 1:1 SLOPE & 24" BOTTOM WIDTH. AS PLANTER GETS WIDER MAINTAIN 1:1 SLOPE AND INCREASE BOTTOM WIDTH WIDER THAN 24". ALTERNATIVE TRENCH WALL CONFIGURATIONS MAY BE PROPOSED BY THE PROJECT GEOTECHNICAL ENGINEER (I.E. VERTICAL SHORING, REINFORCED TRENCH SIDEWALL) THAT DON'T REQUIRE SIDEWALK SUPPORT FROM THE LIGHTLY COMPACTED BSM.

NOT TO SCALE

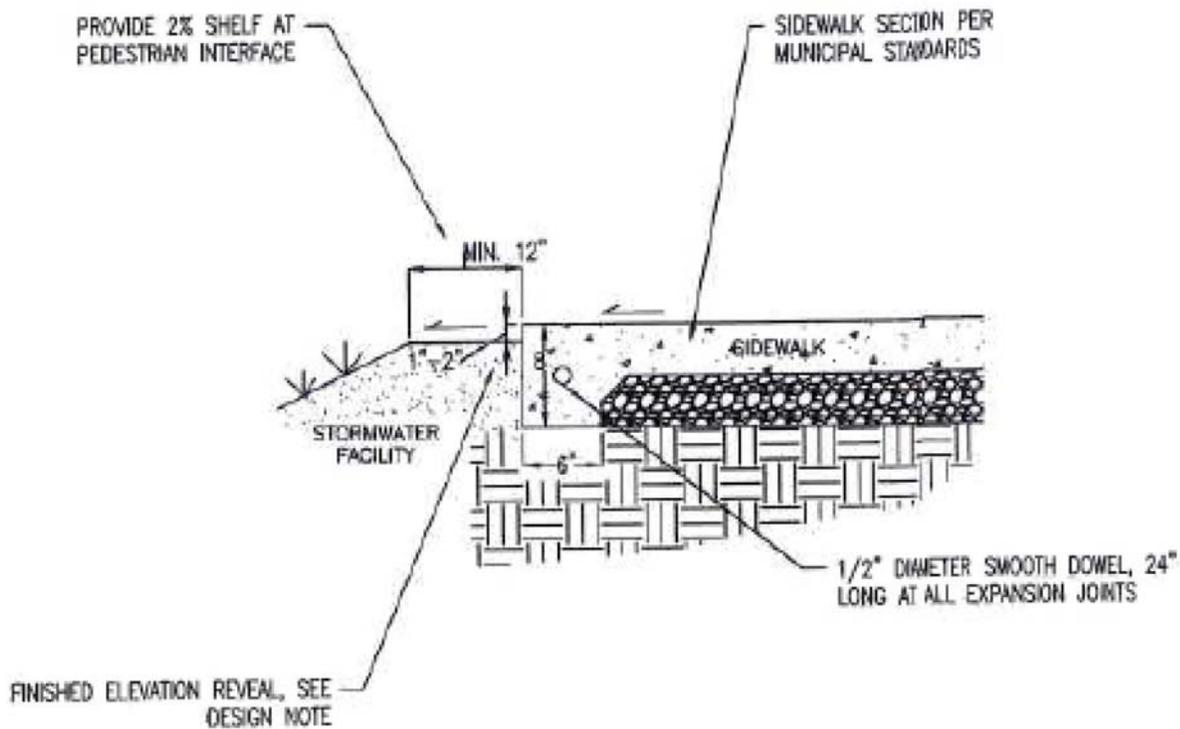
DEEP CURB

REVISIONS:  
JAN. 2016

DRAWN BY: kjp

CITY OF REEDLEY

LID-7



DESIGN NOTES

1. SPECIAL DESIGN CONSIDERATION OR STRUCTURAL REVIEW MAY BE REQUIRED FOR LONGER FACILITY EDGE SPANS. STEEL REINFORCEMENT OR ADDITIONAL CONCRETE CHECK DAMS MAY BE NEEDED FOR STABILITY.
2. FINISHED ELEVATION REVEAL - WHERE SIDEWALK CONVEYS SHEET FLOW TO FACILITY, A 1"-2" REVEAL SHOULD BE MAINTAINED BETWEEN SIDEWALK AND FACILITY FINISHED GRADE TO AVOID MULCH OR PLANT BUILDUP FROM BLOCKING FLOWS.
3. CONCRETE AND EXPANSION JOINTS SHALL MEET THE REQUIREMENTS OF THE CITY.

CONSTRUCTION NOTES

1. FINISH ALL EXPOSED CONCRETE SURFACES.

NOT TO SCALE

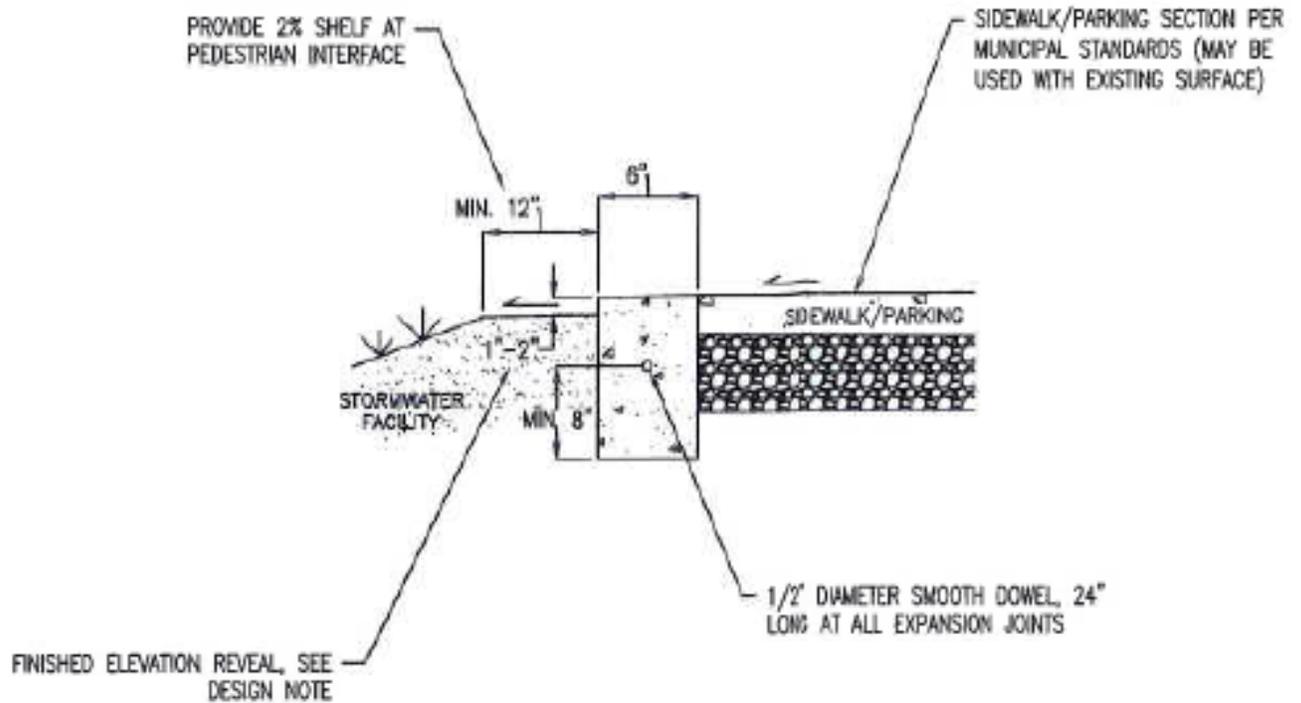
THICKENED EDGE  
SIDEWALK

REVISIONS:  
JAN. 2016

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CITY OF REEDLEY

LID-8



#### DESIGN NOTES

1. SPECIAL DESIGN CONSIDERATION OR STRUCTURAL REVIEW MAY BE REQUIRED FOR LONGER FACILITY EDGE SPANS. STEEL REINFORCEMENT OR ADDITIONAL CONCRETE CHECK DAMS MAY BE NEEDED FOR STABILITY.
2. EDGE CONDITION WILL VARY FOR PROJECTS. CURB DETAILS MAY BE MODIFIED BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY CITY ENGINEER.
3. CONCRETE AND EXPANSION JOINTS SHALL MEET THE REQUIREMENTS OF THE CITY.
4. FINISHED ELEVATION REVEAL AT SIDEWALK - WHERE SIDEWALK CONVEYS SHEET FLOW TO FACILITY, A 1"-2" REVEAL SHOULD BE MAINTAINED BETWEEN SIDEWALK AND FACILITY FINISHED GRADE TO AVOID MULCH OR PLANT BUILDUP FROM BLOCKING FLOWS AND REDUCE DROP AT PEDESTRIAN INTERFACE.

#### CONSTRUCTION NOTES

1. FINISH ALL EXPOSED CONCRETE SURFACES.

NOT TO SCALE

FLUSH CURB  
AT SIDEWALK

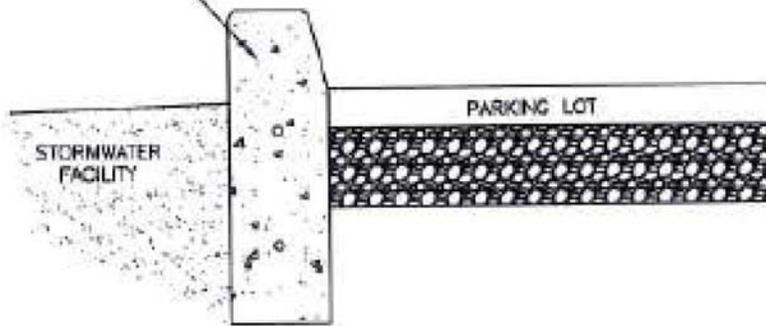
REVISIONS:  
JAN. 2016

DRAWN BY: kjp

CITY OF REEDLEY

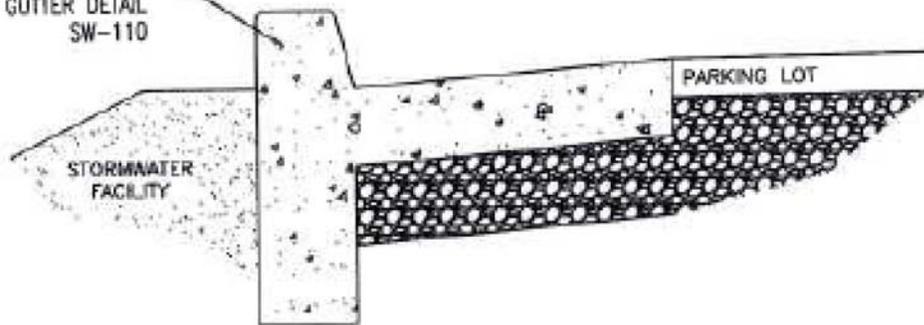
LID-9

DEEP CURB  
DETAIL SW-111



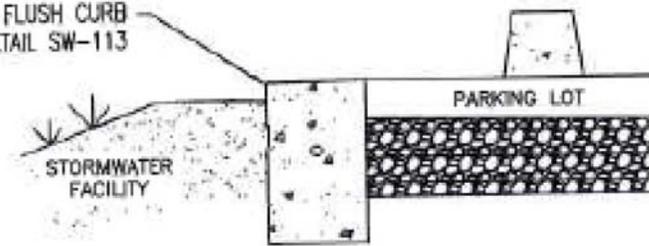
DEEP CURB

CURB AND  
GUTTER  
DETAIL  
SW-110



CURB AND GUTTER

FLUSH CURB  
DETAIL SW-113



FLUSH EDGE/WHEEL STOPS

DESIGN NOTES

1. WHEEL STOPS MAY BE USED ON NON-FLUSH DESIGNS TO KEEP CARS FROM OVERHANGING BIORETENTION FACILITY.
2. VEHICLE OVERHANG CAN BE USED TO REDUCE IMPERVIOUS PAVEMENT AREA.
3. WHERE VEHICLE OVERHANG IS UTILIZED SELECT LOW GROWING PLANTS THAT WILL TOLERATE SHADING.

NOT TO SCALE

PARKING LOT  
EDGE OPTIONS

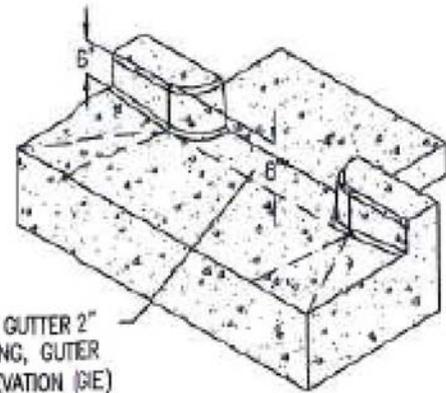
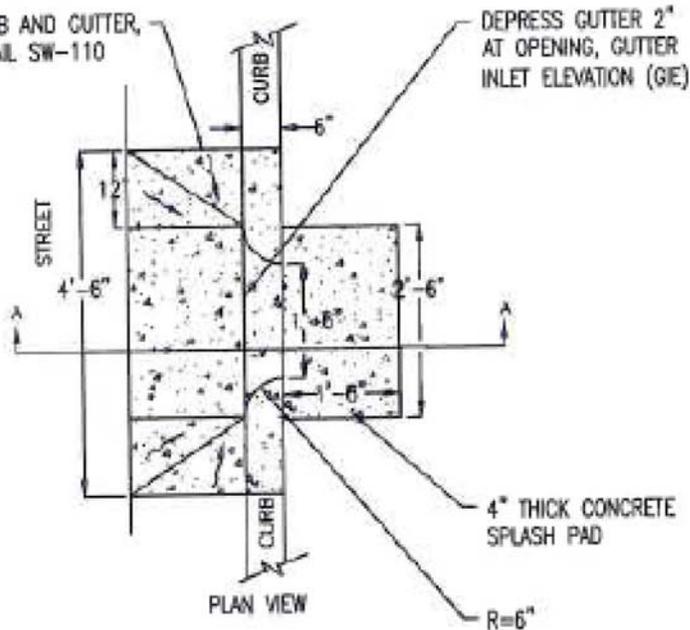
REVISIONS:  
JAN. 2016

CITY OF REEDLEY

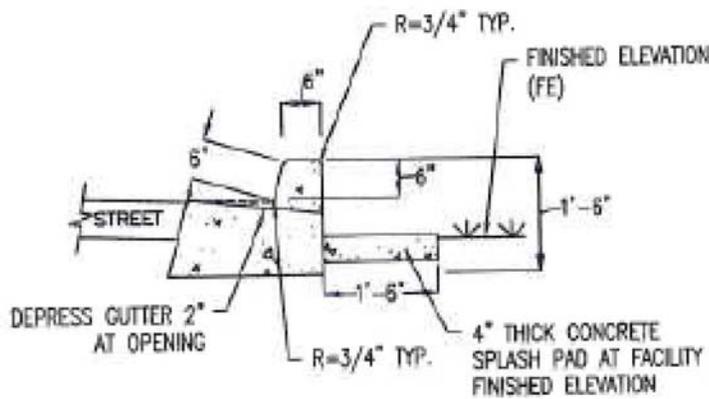
LID-10

DRAWN BY: kjp

CURB AND GUTTER,  
DETAIL SW-110



PERSPECTIVE VIEW



SECTION A-A

**BIDRETENTION DESIGN NOTES**

1. FOR USE WITH STORMWATER FACILITIES WITH FLAT BOTOMS.
2. PROVIDE SPOT ELEVATIONS ON PLANS (FE, OE, GIE, IE). SEE DETAIL SW-100.
3. CURB AND WALL DETAILS MAY BE MODIFIED BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY CITY ENGINEER.
4. CURB HEIGHT MAY BE REDUCED TO 4-INCHES WHERE ADJACENT TO A SIDEWALK. SEE DETAILS SW-110 & SW-111.

**CONSTRUCTION NOTES**

1. AFTER CONSTRUCTION PLACE SAND BAGS AT GUTTER OPENINGS TO KEEP STORM FLOWS FROM ENTERING FACILITY UNTIL VEGETATION IS ESTABLISHED.

NOT TO SCALE

CURB CUT INLET  
FOR PLANTERS

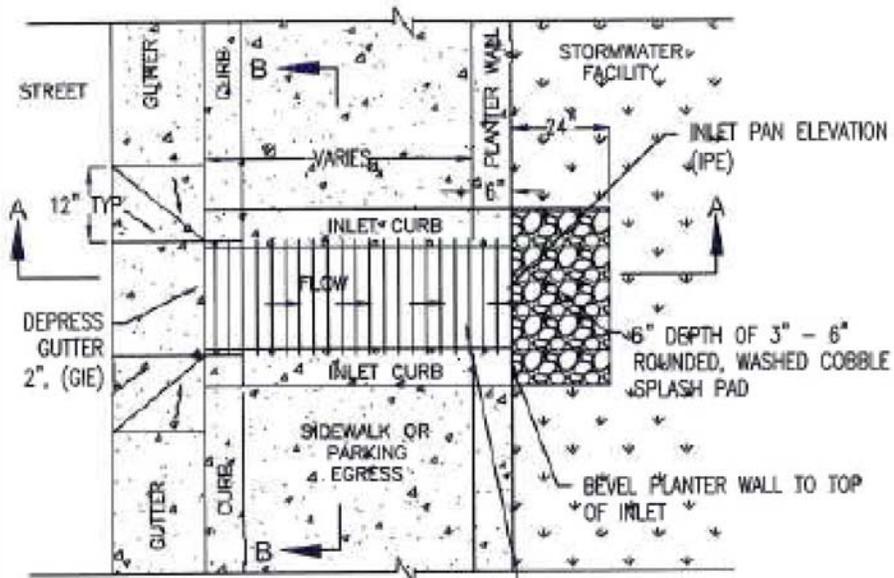
REVISIONS:  
JAN. 2016

DRAWN BY: kjp

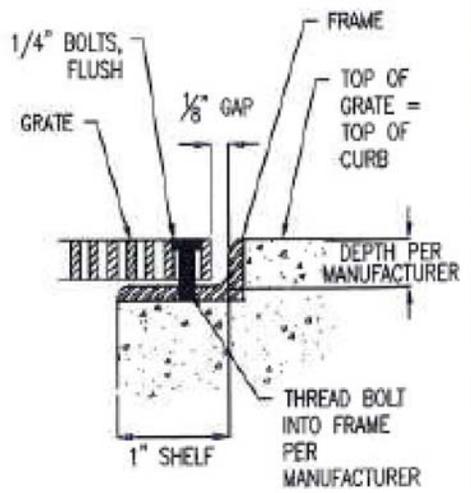
CITY OF REEDLEY

LID-11

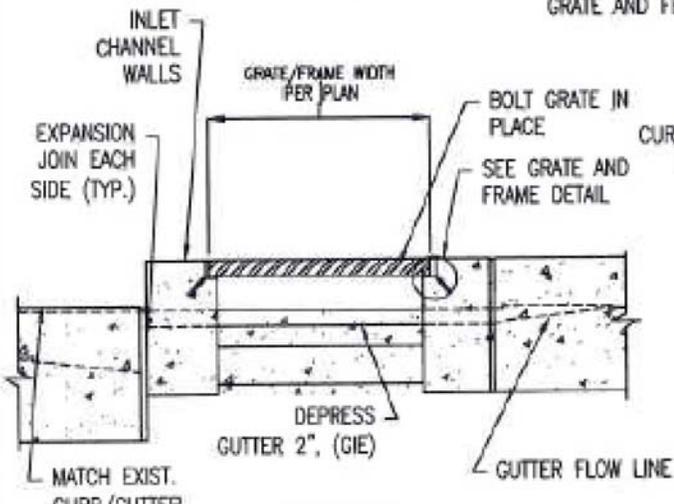




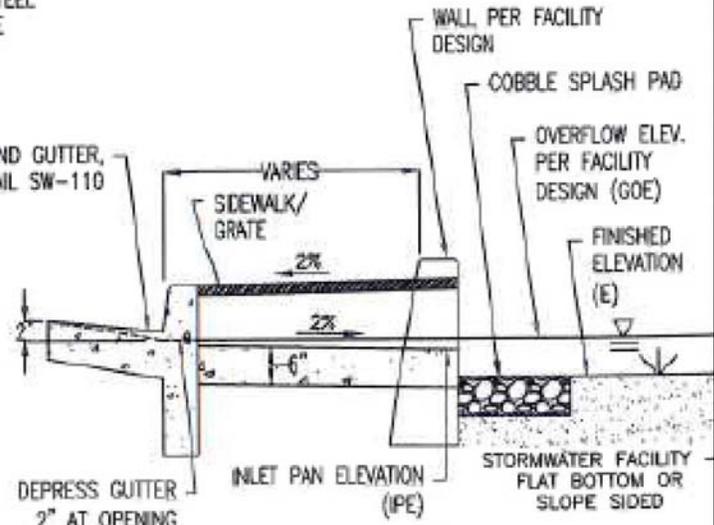
PLAN VIEW



GRATE AND FRAME



SECTION B-B



SECTION A-A

**BIDRETENTION DESIGN NOTES**

1. FOR USE WITH STORMWATER FACILITIES WITH SLOPED SIDES OR FLAT BOTTOMS.
2. PROVIDE SPOT ELEVATIONS ON PLANS (FE, OE, GIE, IPE). SEE DETAIL SW-100.
3. REFER TO MUNICIPAL STANDARD DRAWINGS AND MATCH GUTTER PAN OF ADJACENT CURB AND GUTTER.
4. IF SLOPED SIDES, WHERE INLET FLOW VELOCITY IS HIGH, EXTEND COBBLE INTO FACILITY, BUT AVOID EXCESSIVE USE.
5. BASE MATERIAL FOR CURB, GUTTER, AND SIDEWALK PER MUNICIPAL STANDARDS.

**CONSTRUCTION NOTES**

1. AFTER CONSTRUCTION PLACE SAND BAGS AT GUTTER OPENINGS TO KEEP STORM FLOWS FROM ENTERING FACILITY UNTIL VEGETATION IS ESTABLISHED.

NOT TO SCALE

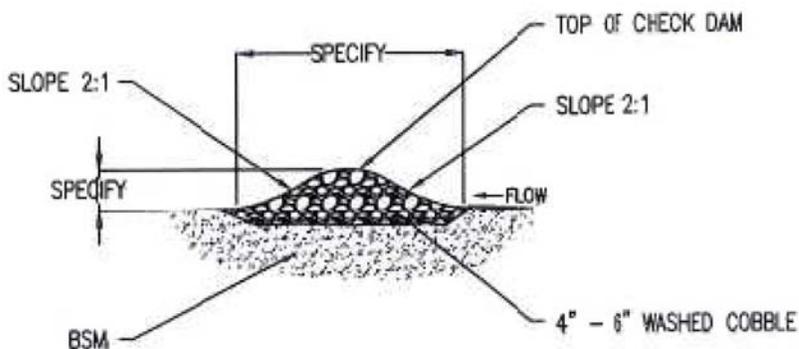
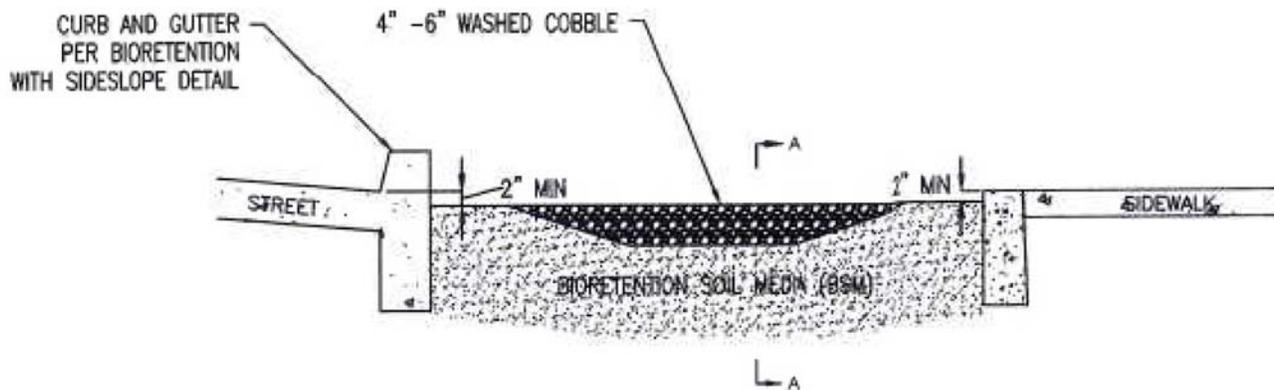
INLET WITH GRATE

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JAN. 2016

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CITY OF REEDLEY

LID-13



SECTION A-A

**BIORETENTION DESIGN NOTES**

1. FOR USE WITH STORMWATER FACILITIES WITH SLOPED SIDES.
2. BEST SUITED FOR FACILITIES WITH  $< \text{OF } \leq$  THAN 2% LONGITUDINAL SLOPE.
3. PROVIDE ELEVATIONS AND STATIONING AND/OR DIMENSIONING FOR CHECK DAMS.
4. SPACE CHECK DAMS TO MAXIMIZE PONDING ACROSS ENTIRE CELL.
5. ENSURE THAT CHECK DAM ELEVATIONS DO NOT CAUSE STORMWATER TO OVERFLOW TO SIDEWALK.

**CONSTRUCTION NOTES**

1. DO NOT WORK DURING RAIN OR UNDER WET CONDITIONS.
2. KEEP ALL HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.

NOT TO SCALE

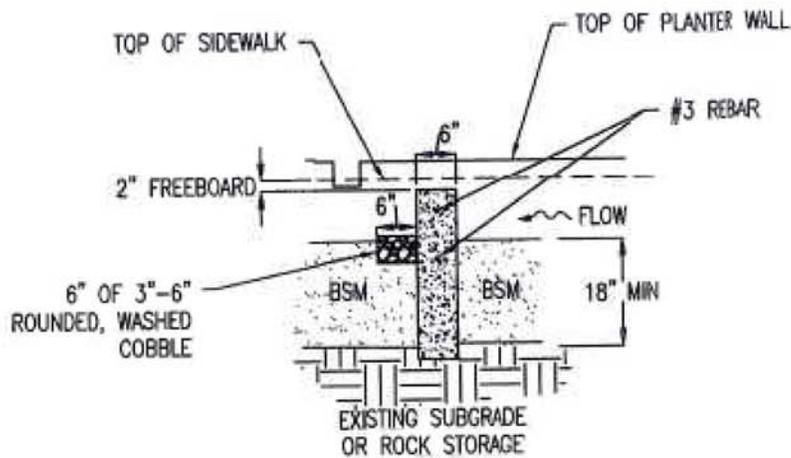
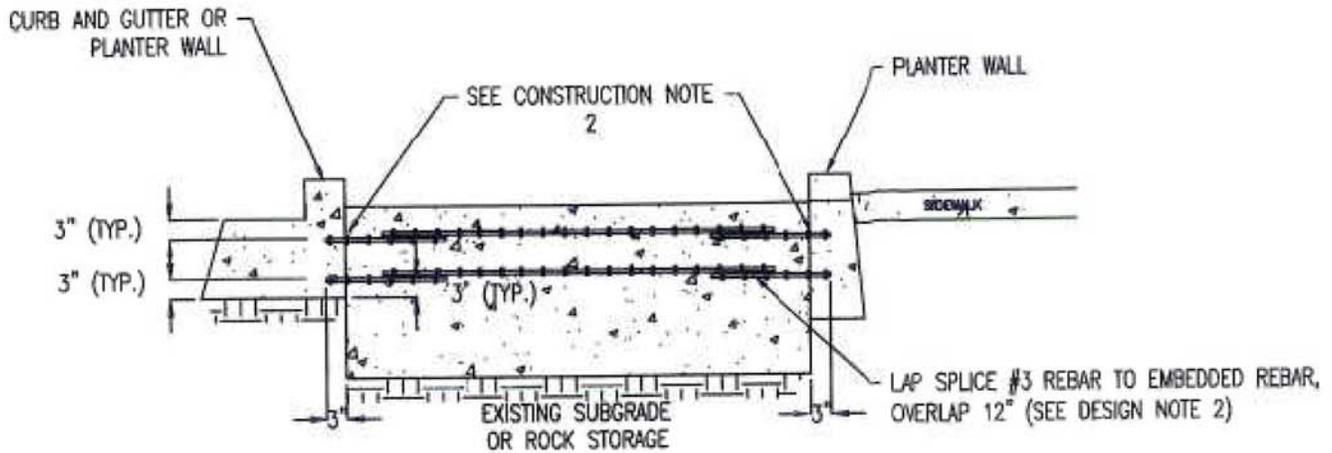
GRAVEL CHECK DAM

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CITY OF REEDLEY

LID-14



**BIORETENTION DESIGN NOTES**

1. FOR USE WITH BIORETENTION PLANTERS OR SLOPED SIDED SWALES/RAIN GARDENS.
2. FOR CHECK DAMS LONGER THAN 12' SPECIFY REBAR OVERLAP LENGTH.
3. SPACE CHECK DAMS TO MAXIMIZE PONDING ACROSS CELLS.
4. PROVIDE ELEVATIONS AND STATIONING AND/OR DIMENSIONING FOR CHECK DAMS.
5. ENSURE THAT CHECK DAM ELEVATIONS DO NOT CAUSE STORMWATER TO OVERFLOW TO SIDEWALK.
6. SHOW PLANTER WALL EMBEDDED IN EXISTING SUBGRADE OR DRAINROCK.

**CONSTRUCTION NOTES**

1. EMBED #3 REBAR 3" INTO CURB AND PLANTER WALL.
2. DO NOT WORK DURING RAIN OR UNDER WET CONDITIONS.
3. KEEP ALL HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.

NOT TO SCALE

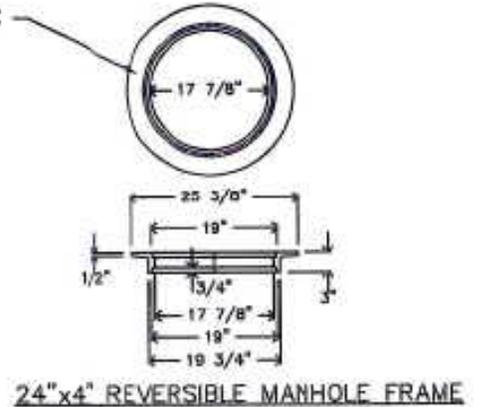
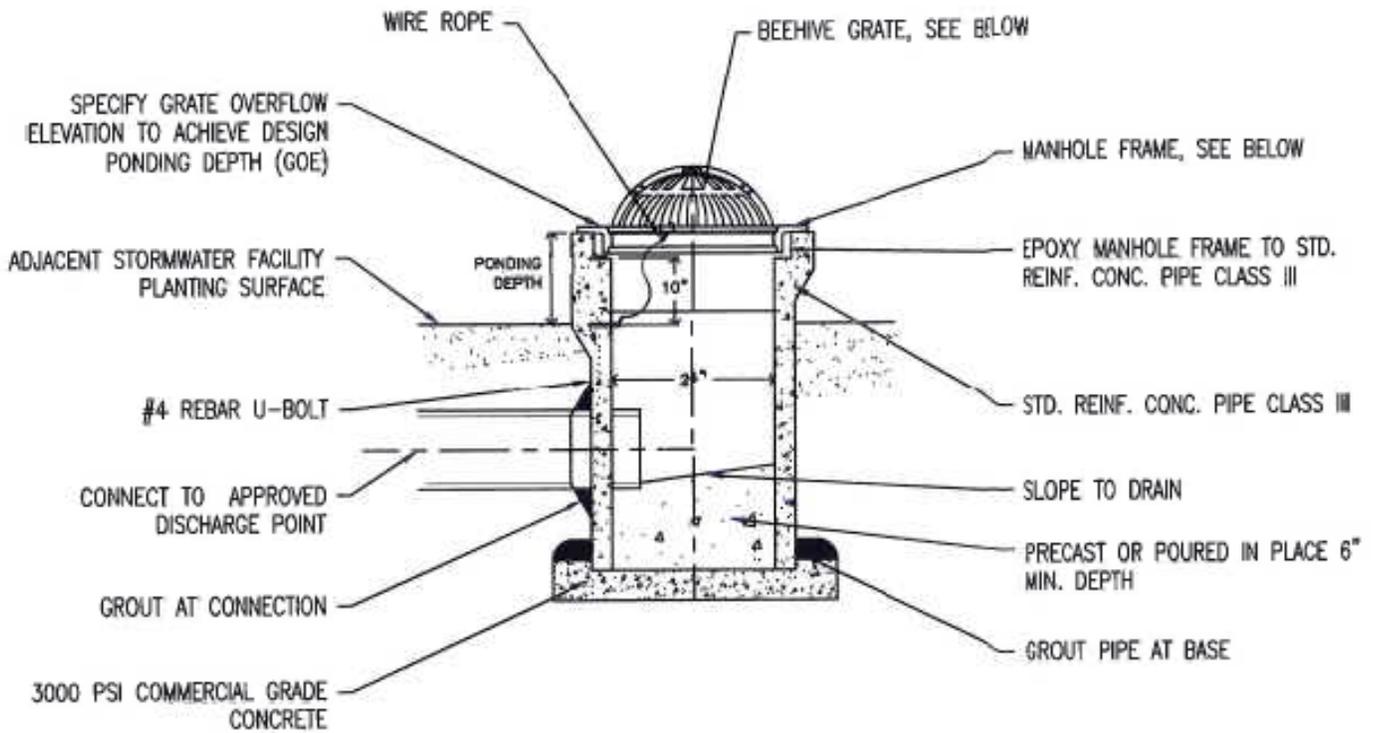
CONCRETE CHECK DAM

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CITY OF REEDLEY

LID-15



**DESIGN NOTES**

1. PROVIDE GRATE OVERFLOW ELEVATION ON PLANS.
2. TO INCORPORATE FLEXIBILITY INTO DESIGN OVERFLOW ELEVATION OR CORRECT ELEVATION OF AN EXISTING STRUCTURE, INSTALL OVERFLOW COLLAR, PER DETAIL SW-141.
3. IN PRIVATE SITES NOT IN CITY R/W THE PROJECT CIVIL ENGINEER MAY PROPOSE ALTERNATIVES FOR GRATE INSTALLATIONS USING ALTERNATIVE MANUFACTURER'S PRODUCT/CONFIGURATION.

**CONSTRUCTION NOTES**

1. DO NOT ADJUST OVERFLOW GRATE ELEVATION, CONSTRUCT AS SHOWN ON PLANS.

NOT TO SCALE

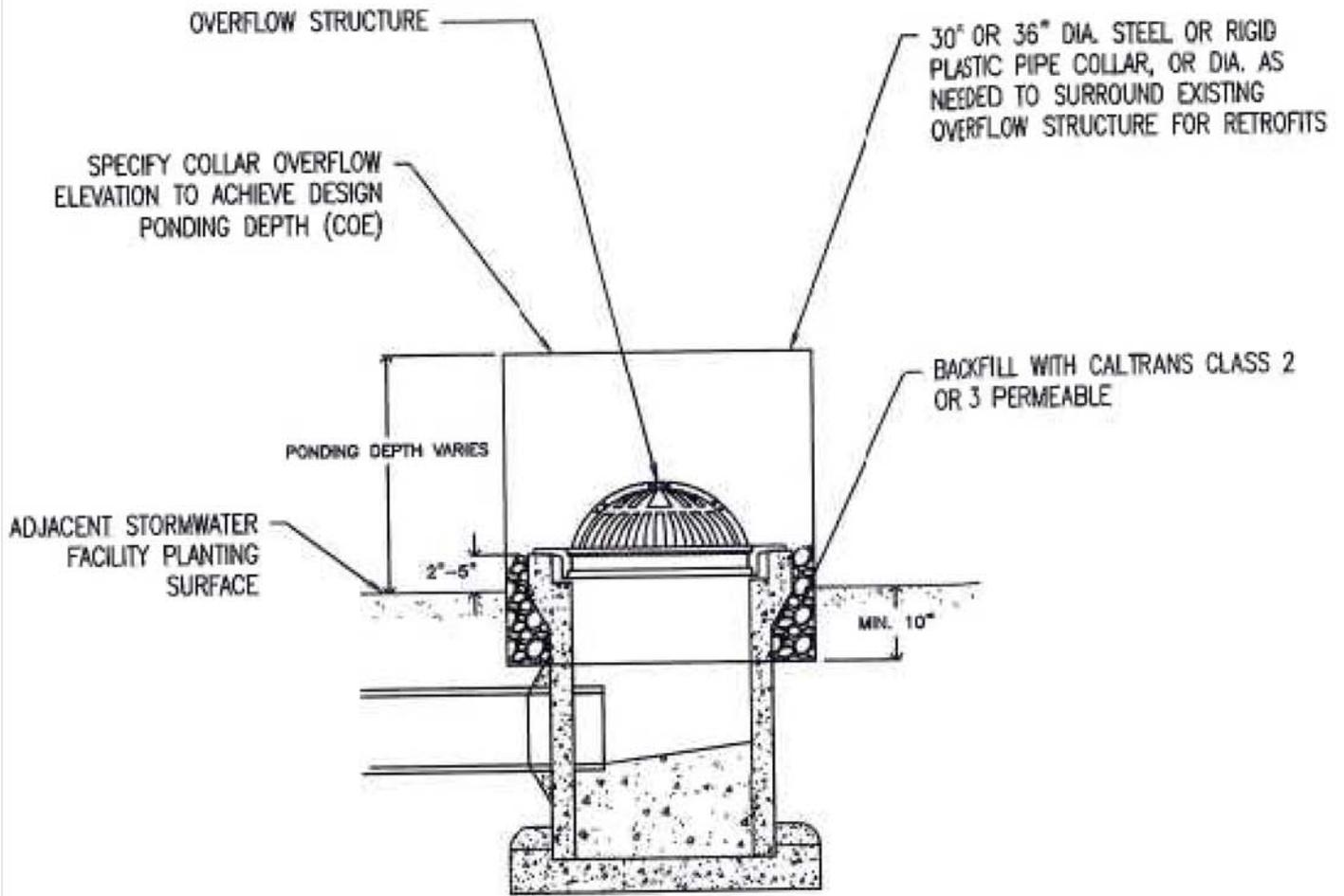
OVERFLOW STRUCTURE  
WITH BEEHIVE GRATE

REVISIONS:  
JAN. 2016

DRAWN BY: kjp

CITY OF REEDLEY

LID-16



DESIGN NOTES

1. MAY BE USED IN CONJUNCTION WITH OVERFLOW STRUCTURES TO ALLOW FOR FIELD ADJUSTMENT OF OVERFLOW ELEVATION, OR AS RETROFIT TO CORRECT EXISTING STRUCTURE THAT DOES NOT ALLOW PONDING TO OCCUR.
2. PROVIDE COLLAR OVERFLOW ELEVATION (COE) ON PLANS.
3. PCC PIPE RISER EXTENSIONS MAY BE UTILIZED IN LIEU OF OVER FLOW STRUCTURE COLLAR.

CONSTRUCTION NOTES

1. CENTER COLLAR ON OVERFLOW GRATE.

NOT TO SCALE

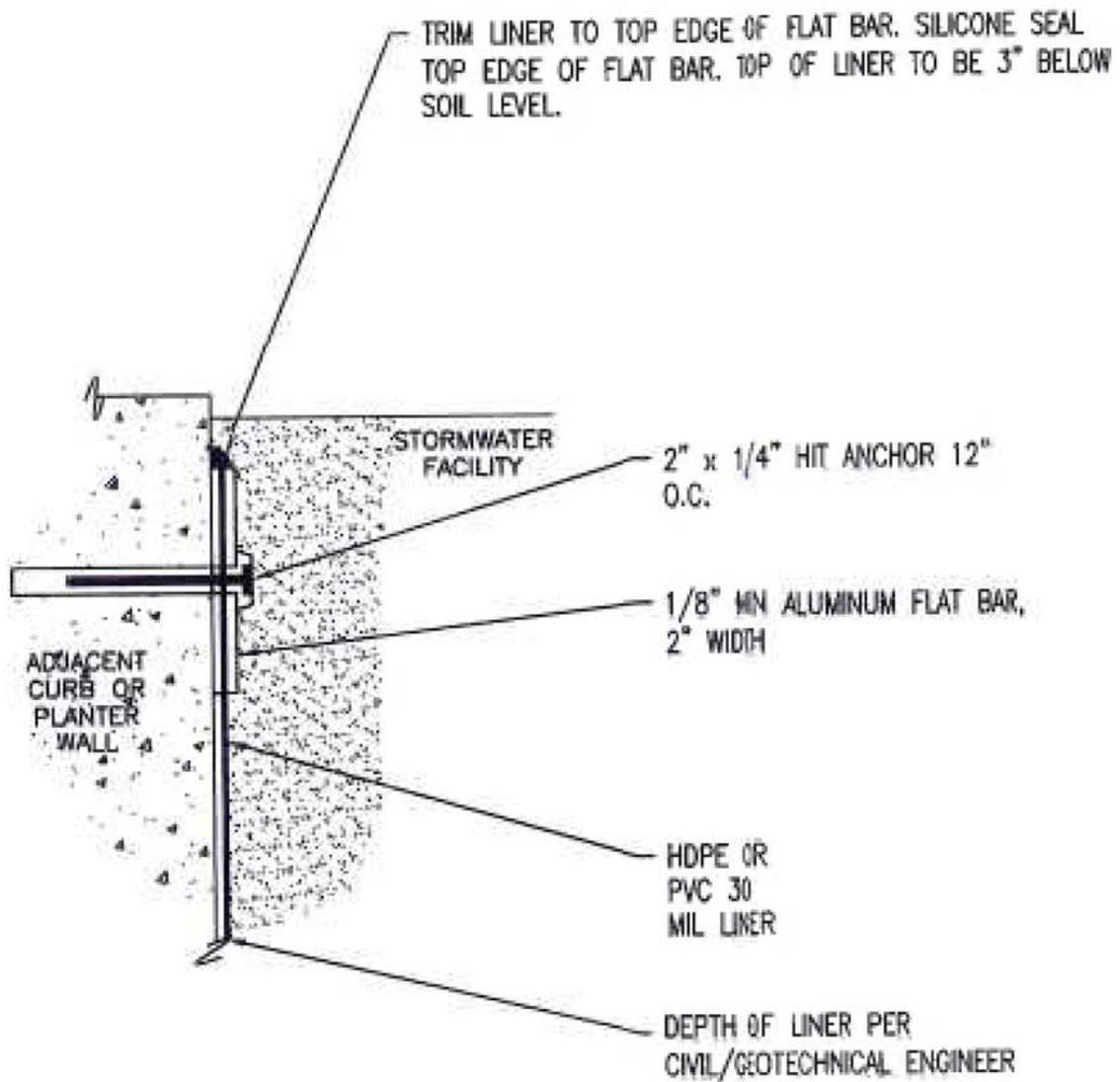
OVERFLOW STRUCTURE  
COLLAR

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CITY OF REEDLEY

LID-17



NOT TO SCALE

IMPERMEABLE LAYER

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LID-18

NOT TO SCALE

ZONE A LID  
RECOMMENDED PLANT LIST  
GRASS/GRASSLIKE

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CITY OF REEDLEY

LID-19

Bioretenation Plant List  
Plants for Zone A: Periodic inundation, area ponds following storm events (6" to 12" depth for 24 - 72 hours) and compost amended sand soil.

Scientific & Common Name	Height/Width	Light Preferences			Water Tolerances		CA Native	Sunset Climate Zones <sup>1</sup>	Notes
		Sun	Part Shade	Drought	Inundation				
<b>GRASS / GRASSLIKE</b>									
<i>Carex barbinervis</i> Santa Barbara Sedge/ Basket Sedge	1-2' / 1'-2'	X	X	X	X	X	X	4 - 9, 14 - 23	Attracts butterflies, deer resistant, good for erosion control, can spread aggressively and should be sited carefully.
<i>Carex diuis</i> Berkeley Sedge	1' / spreading	X	X	X	X	X	all, but 1A-3A	Attractive blue-grey leaves. Can be mowed 4 in high to keep clean look.	
<i>Carex flacca</i> Blue Sedge	1' / spreading	X	X	X	X	X	3A - 9, 14 - 23	Attractive blue-grey leaves. Can be mowed 4 in high to keep clean look.	
<i>Carex praegracilis</i> California Field Sedge	1' / spreading	X	X	X	X	X	all, but 1A -3A	Mounding, drought deciduous during summer months.	
<i>Carex spirose</i> San Diego sedge	3 - 4' / 2 - 3'	X	X	X	X	X	all, but 1A-3A	Can handle foot traffic and is deer resistant.	
<i>Chondropetalum lecturum</i> Small Cape Rush	2 - 3' / 3 - 4'	X	X	X	X	X	all, but 1A-3A and 7	Needs very little maintenance. If trimmed too much plant will loose visual integrity.	
<i>Leymus condensatus</i> 'Canyon Prince' Canyon Prince Wild Rye	3'/3'	X	X	X	X	X	all, but 1A-3A	Tolerant of drought, poor soils, part shade and seasonal wet. Spreads by rhizomes, so nice planted in masses. Cut back annually in spring before new growth emerges.	
<i>Juncus effusus</i> Common Rush	2 - 3' / clumping	X	X	X	X	X	all	Easy to grow & very reliable. Needs more water than <i>Juncus patens</i> .	
<i>Juncus patens</i> 'Elk Blue' Elk Blue California Gray Rush	2' / clumping	X	X	X	X	X	all	Very little maintenance, handles dry summers and wet winters.	
<i>Muhlenbergia rigens</i> Deer Grass	2 - 3' / 3 - 6'	X	X	X	X	X	all, but 1A-3A	Can handle no watering, will stay green year round with watering.	
<i>Scirpus cernuus</i> Low Bulrush	1' / spreading	X	X	X	X	X	7 - 24	Grow individually or in mass, cut back once a year, very attractive.	

1 Refers to the Sunset Western Garden Book Zones [www.sunset.com/garden/climatezones/](http://www.sunset.com/garden/climatezones/)

**Bioretention Plant List**  
 Plants for Zone A: Periodic inundation, area ponds following storm events (6" to 12" depth for 24 - 72 hours) and compost amended sand soil.

Scientific & Common Name	Height / Width	Light Preferences			Water Tolerances		CA Native	Sunset Climate Zones <sup>1</sup>	Notes
		Sun	Part Shade	Shade	Drought	Inundation			
<b>PERENNIALS</b>									
<i>Achillea millefolium californica</i> Yarrow	1-3' / 2'	X	X		X	X	X	all	Tolerates regular to no watering, foot traffic, attracts butterflies, stress deciduous.
<i>Anemopsis californica</i>	1-2' / spreading	X	X		X	X	X	all, but 1A-3A	Mat forming ground cover, interesting white flowers, prune back in late summer, likes moist conditions.
Yerba Mansa	2-3' / 1-2'	X			X	X	X	all but 1A	Attracts beneficial insects, stress deciduous in summer, likes water but will survive drought if pruned back.
Joaquin Sunflower	1-3' / 1-3'	X			X	X	X	10 - 24	Very attractive 1 - 2 inch pink flowers, little water after established, semi-evergreen, attracts butterflies and hummingbirds.
<i>Callitriche eriophylla</i> Fairy Duster	1-2' / 2-3'	X	X		X	X	X	all	Will go dormant during drought, interesting muted pink and yellow flowers.
<i>Epipactis gigantea</i> Stream Orchid	1-3' / 1-3"	X			X	X	X	all	Can handle periodic inundation, cut back yearly to prevent it from becoming weedy.
<i>Eschscholzia californica</i> California Poppy	1-2' / spreading	X	X		X	X	X	all, but 1A-3A	Needs moisture or shade inland, does well on coast, evergreen leaves, attractive lavender-blue flowers in Spring.
<i>Iris douglasiana</i> Douglas Iris	3-8' / 6"	X	X		X	X	X	2-7, 14-17	Attractive red-orange spotted blossoms in spring, needs regular water, will get large in moist, partial shade conditions.
<i>Lilium pardalinum</i> Leopard Lily	2-3' / 2'	X	X		X	X	X	1-7, 14-17	A bog plant, attracts hummingbirds, showy scarlet flowers.
<i>Lobelia cardinalis</i> Cardinal Flower	1-3' / 1-3'	X	X		X	X	X	all but 1A	Year round red color with regular water, attracts hummingbirds, reseeds itself & should not be used for small spaces.
<i>Mimulus cardinalis</i> Scarlet Monkey Flower	1-3' / 1-3'	X	X		X	X	X	all but 1A	Yellow flowers are abundant in spring-summer, attracts butterflies, will die back in drought and come back following year.
<i>Mimulus guttatus</i> Scoop Monkey Flower	2-5' / 1-2'	X	X		X	X	X	all	Yellow showy flowers late summer and fall, cut back in winter, can get large under ideal conditions and may require pruning.
<i>Ruellia californica</i> California Coneflower	1-3' / spreading	X	X		X	X	X	all, but 1A-3A	Very attractive foliage and flowers, fragrant, attracts hummingbirds, deer resistant, likes to grow in understory of trees.
<i>Salvia apiculata</i> Hummingbird Sage	6'-3' / 6'-3'	X			X	X	X	all, but 1A-3A	Requires little to no maintenance. Summer dormant, will come back during wetter months on it's own. Can irrigate to prolong flowering.
<i>Sisyrinchium bellum</i> Blue-Eyed Grass	1-3' / 2-3'	X	X		X	X	X	all, but 24	Attracts beneficial insects and butterflies. Attractive yellow flowering inflorescences in summer and fall. Dormant in winter, cut back to ground.
<i>Solidago californica</i> California Goldenrod									

1. Refers to the Sunset Western Garden Book Zones [www.sunset.com/gardens/climatezones/](http://www.sunset.com/gardens/climatezones/)

NOT TO SCALE

ZONE A LID  
 RECOMMENDED PLANT LIST  
 PERENNIALS

REVISIONS:  
 JAN. 2016

DRAWN BY: kjp

CITY OF REEDLEY

LID-20

**Bioretention Plant List**  
 Plants for Zone A: Periodic inundation, area ponds following storm events (6' to 12' depth for 24 - 72 hours) and compost amended sand soil.

Scientific & Common Name	Height / Width	Light Preferences		Water Tolerances		CA Native	Sunset Climate Zones <sup>1</sup>	Notes
		Sun	Shade	Drought	Inundation			
<b>SHRUBS / SHRUBS</b>								
 <i>Baccharis pilularis</i> Coyote Brush	wide variation	X			X	X	all, but 1A-3A	Adaptable evergreen shrub, provides quick cover and bank stabilization, tolerant of coastal conditions, alkaline soil, sand, clay and seasonal wet, dwarf (low growing) varieties available.
 <i>Zauschneria californica</i> 'Catalina' Island California Fuchsia	1 - 3' / 2 - 3'	X	X		X	X	All but 1A	Likes moisture but will survive through drought, attractive red flowers that hummingbirds like. This species is hardier and flowers last longer.
 <i>Zauschneria californica</i> 'Uvas Canyon' San Jose California Fuchsia	2 - 3' / spreading	X	X		X	X	All but 1A	Grey foliage, attractive red-orange flowers, very showy in late fall. Full sun with regular watering or along coast. Can be mowed to look like lawn.
<b>LARGE SHRUBS / TREES</b>								
 <i>Aesculus californica</i> California Buckeye	15'	X			X	X	all but 1A-2A	Small tree that has fragrant white panicles April - May. Needs regular water for the first 2 years. Interesting form throughout all seasons. Good for native bee population.
 <i>Amorpha californica</i> California False Indigo Bush	6' / spreading		X		X	X	all, but 1A -3A	Large shrub, with fragrant purple flowers. Needs no water after established. Provides larval food for California State butterfly.
 <i>Cercis occidentalis</i> Western Redbud	3 - 16' / 3 - 16'	X	X		X	X	all but 1A	Needs winter chill to set flowers properly. Abundant amount of flowering purple-pink flowers in spring. Can be pruned to tree or left as shrub.
 <i>Cornus californica</i> California Dogwood	3 - 10' / 3 - 10'		X		X	X	all, but 1A -3A	Attractive red branching stems with red deciduous leaves in winter. Good for erosion control. Showy white blooms in spring.
 <i>Corypha elliptica</i> 'James Roof' Silk Tassel	10 - 15'	X	X		X	X	all, but 1A -3A	Drought tolerant where rainfall exceeds 20." Evergreen shrub - tree with hanging white catkins.
 <i>Sambucus mexicana</i> Tapiro, Blue Elderberry	6 - 15'	X	X		X	X	all but 1A	Deciduous shrub that can be pruned to a tree. Can handle extreme drought after first years. Needs maintenance to upkeep appearance. Attractive yellow flowers and edible blue berries. Great for ecosystem rehabilitation.
 <i>Spiraea douglasii</i> Western Spiraea	4 - 5'	X	X		X	X	all	Deciduous shrub, fast growing. Attractive pink clustered flowers summer to early fall. Drought tolerant once established. Very adaptable.

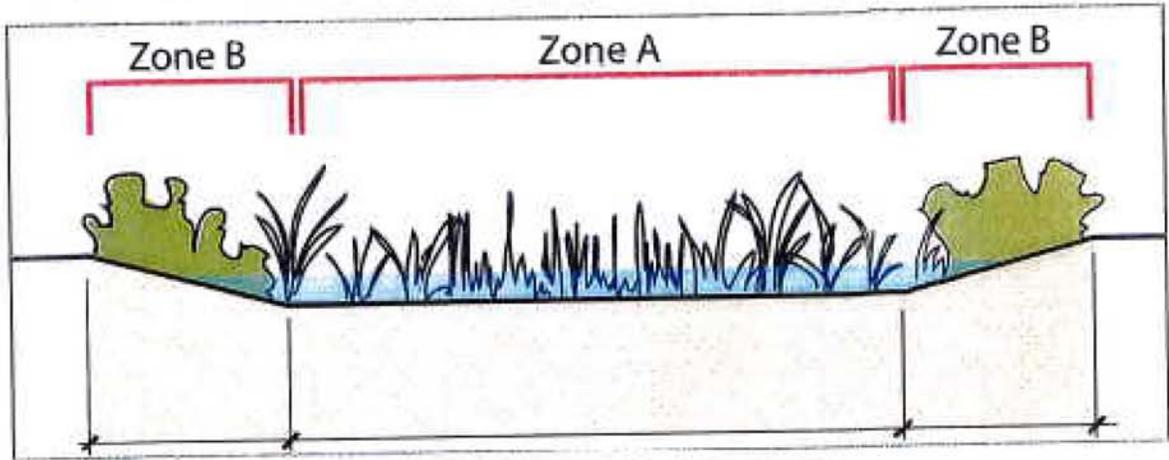
1. Refers to the Sunset Western Garden Book Zones [www.sunset.com/garden/climatezones/](http://www.sunset.com/garden/climatezones/)  
 Prepared by the Central Coast Low Impact Development Initiative [www.centralcoastlidi.org](http://www.centralcoastlidi.org)

NOT TO SCALE

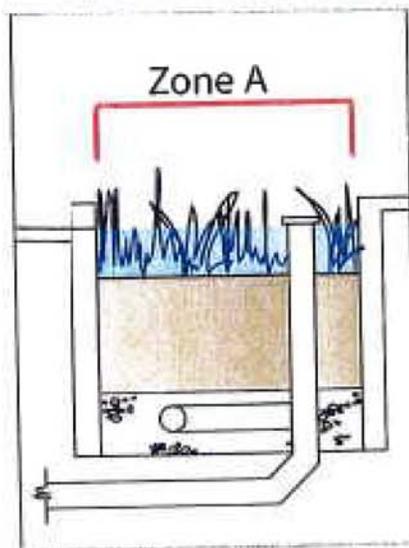
ZONE A LID  
 RECOMMENDED PLANT LIST  
 SHRUBS/TREES

REVISIONS:  
 JAN. 2016  
 DRAWN BY: kjp

**Varying slope and ponding levels:** Varying slope and ponding levels: This bioretention planting area has sloped edges. Plants in the bottom area will be inundated during storms (**Zone A**). Those planted on the sideslopes are above the level of ponding, but will experience seasonally wet conditions (**Zone B**).



**Uniform surface grade:** This stormwater planter has a flat bottom with consistent depth of ponding across the structure. All of the plants selected for this design must be tolerant of periodic inundation (**Zone A**).



NOT TO SCALE

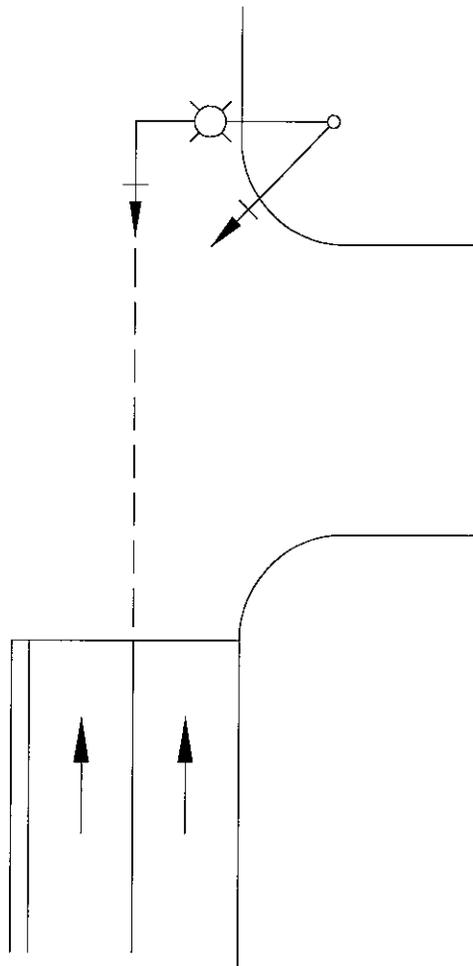
PLANTING  
INUNDATION ZONES

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JAN. 2016

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CITY OF REEDLEY

LID-22



**LEGEND:**

- PREFERRED PLACEMENT
- ⊥ PERMISSIVE SIGNAL INDICATION
- ⊗ LUMINAIRE (SAFETY LIGHT)

NOT TO SCALE

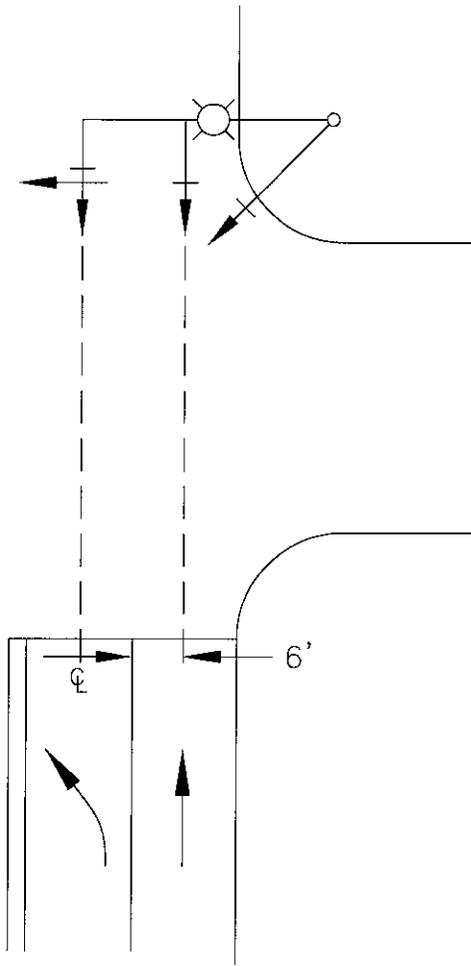
TRAFFIC SIGNAL HEAD  
LOCATIONS  
2 THROUGH LANES ONLY

REVISIONS:  
MAY 2016

DRAWN BY: kjp

CITY OF REEDLEY

TS-1



**LEGEND:**

- PREFERRED PLACEMENT
- ↓ PERMISSIVE SIGNAL INDICATION
- ←↓ PROTECTED LEFT-TURN SIGNAL INDICATION
- ⊗ LUMINAIRE (SAFETY LIGHT)

NOT TO SCALE

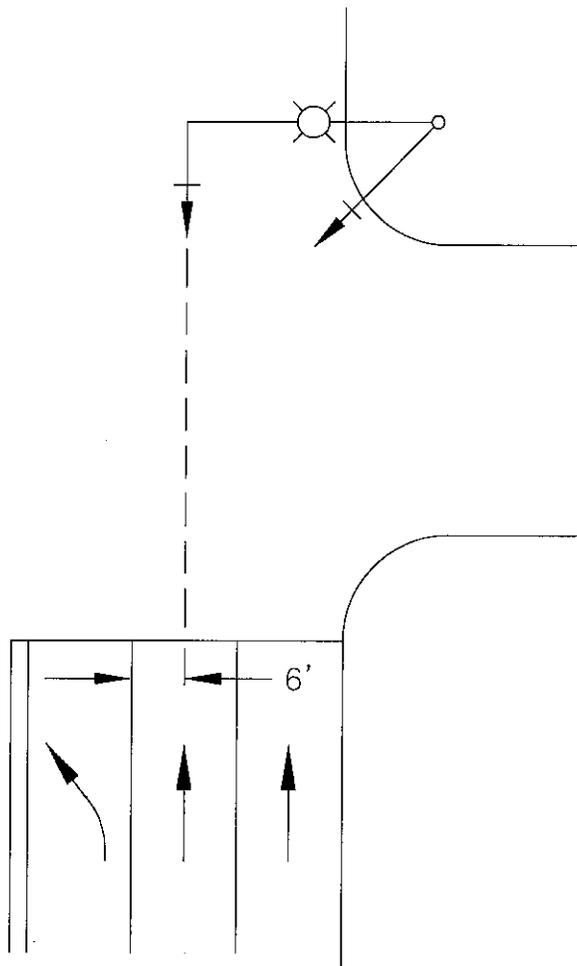
TRAFFIC SIGNAL HEAD  
LOCATIONS  
1 THROUGH LANE & SEPARATE  
PROTECTED LEFT TURN LANE

REVISIONS:  
MAY 2016

DRAWN BY: kjp

CITY OF REEDLEY

TS-1A



**LEGEND:**

- PREFERRED PLACEMENT
- ⊥ PERMISSIVE SIGNAL INDICATION
- ⊗ LUMINAIRE (SAFETY LIGHT)

NOT TO SCALE

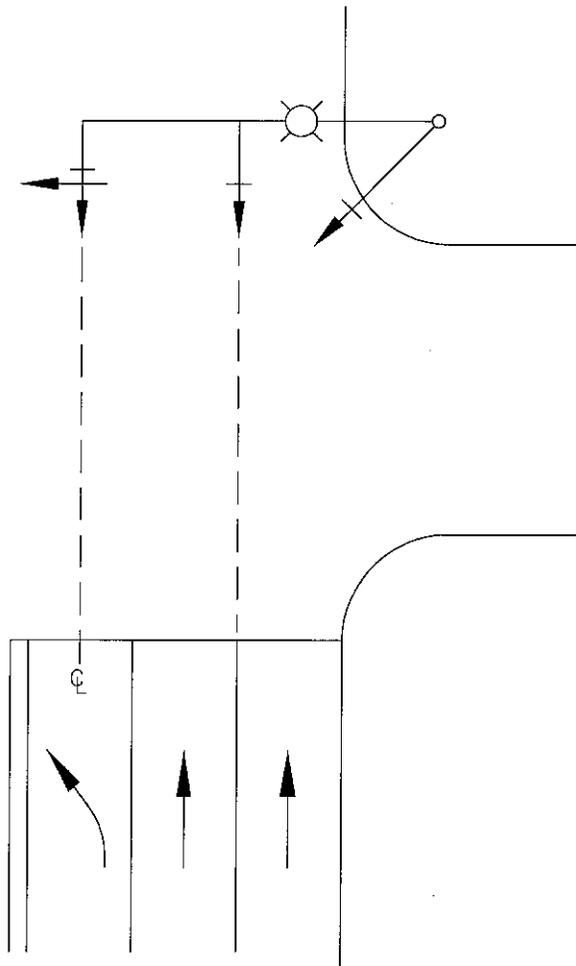
TRAFFIC SIGNAL HEAD  
LOCATIONS  
2 THROUGH LANES WITH  
UNPROTECTED LEFT TURN LANE

REVISIONS:  
MAY 2016

DRAWN BY: kjp

CITY OF REEDLEY

TS-1B



**LEGEND:**

- PREFERRED PLACEMENT
- ↓ PERMISSIVE SIGNAL INDICATION
- ←↓ PROTECTED LEFT-TURN SIGNAL INDICATION
- ⊗ LUMINAIRE (SAFETY LIGHT)

NOT TO SCALE

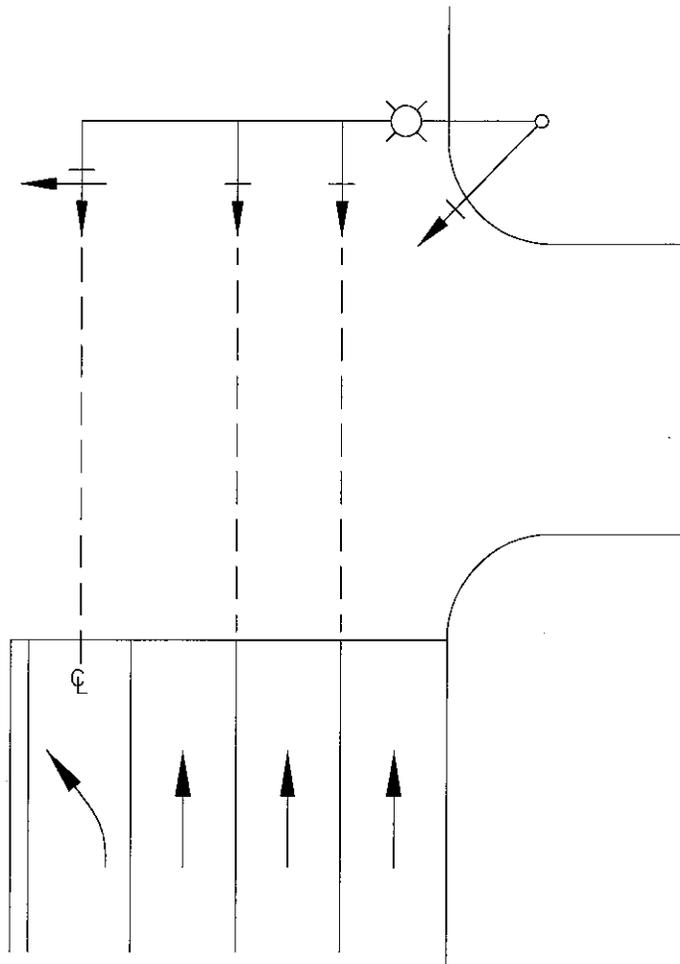
TRAFFIC SIGNAL HEAD  
LOCATIONS  
2 THROUGH LANES WITH  
PROTECTED LEFT TURN LANE

REVISIONS:  
MAY 2016

DRAWN BY: kjp

CITY OF REEDLEY

TS-1C



**LEGEND:**

--- PREFERRED PLACEMENT

↓ PERMISSIVE SIGNAL INDICATION

←↓ PROTECTED LEFT-TURN SIGNAL INDICATION

⊗ LUMINAIRE (SAFETY LIGHT)

NOT TO SCALE

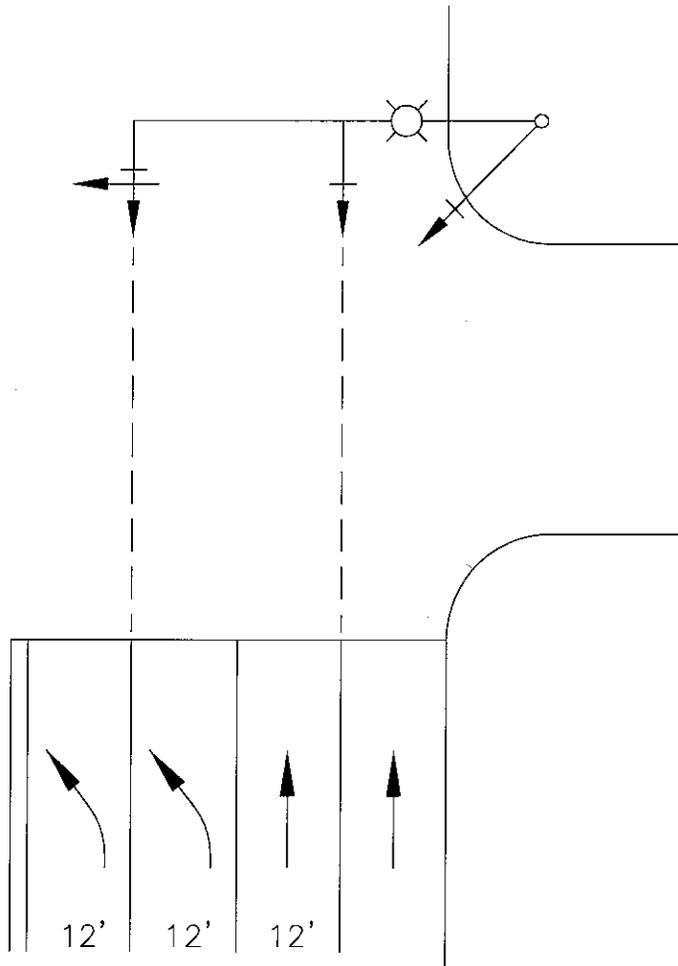
TRAFFIC SIGNAL HEAD  
LOCATIONS  
3 THROUGH LANES WITH  
PROTECTED LEFT TURN LANE

REVISIONS:  
MAY 2016

DRAWN BY: kjp

CITY OF REEDLEY

TS-1D



**LEGEND:**

- PREFERRED PLACEMENT
- ↓ PERMISSIVE SIGNAL INDICATION
- ←↓ PROTECTED LEFT-TURN SIGNAL INDICATION
- ⊙ LUMINAIRE (SAFETY LIGHT)

NOT TO SCALE

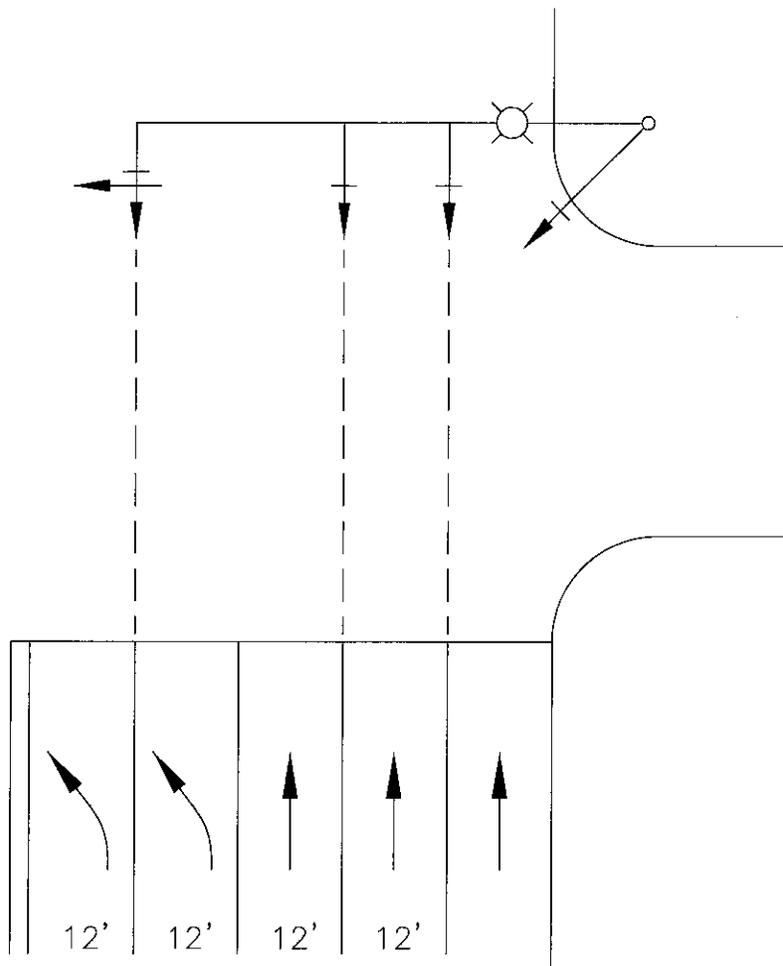
TRAFFIC SIGNAL HEAD  
LOCATIONS  
2 THROUGH LANES WITH  
2 PROTECTED LEFT TURN LANE

REVISIONS:  
MAY 2016

DRAWN BY: kjp

CITY OF REEDLEY

TS-1E



**LEGEND:**

- PREFERRED PLACEMENT
- ↓ PERMISSIVE SIGNAL INDICATION
- ←↓ PROTECTED LEFT-TURN SIGNAL INDICATION
- ⊗ LUMINAIRE (SAFETY LIGHT)

NOT TO SCALE

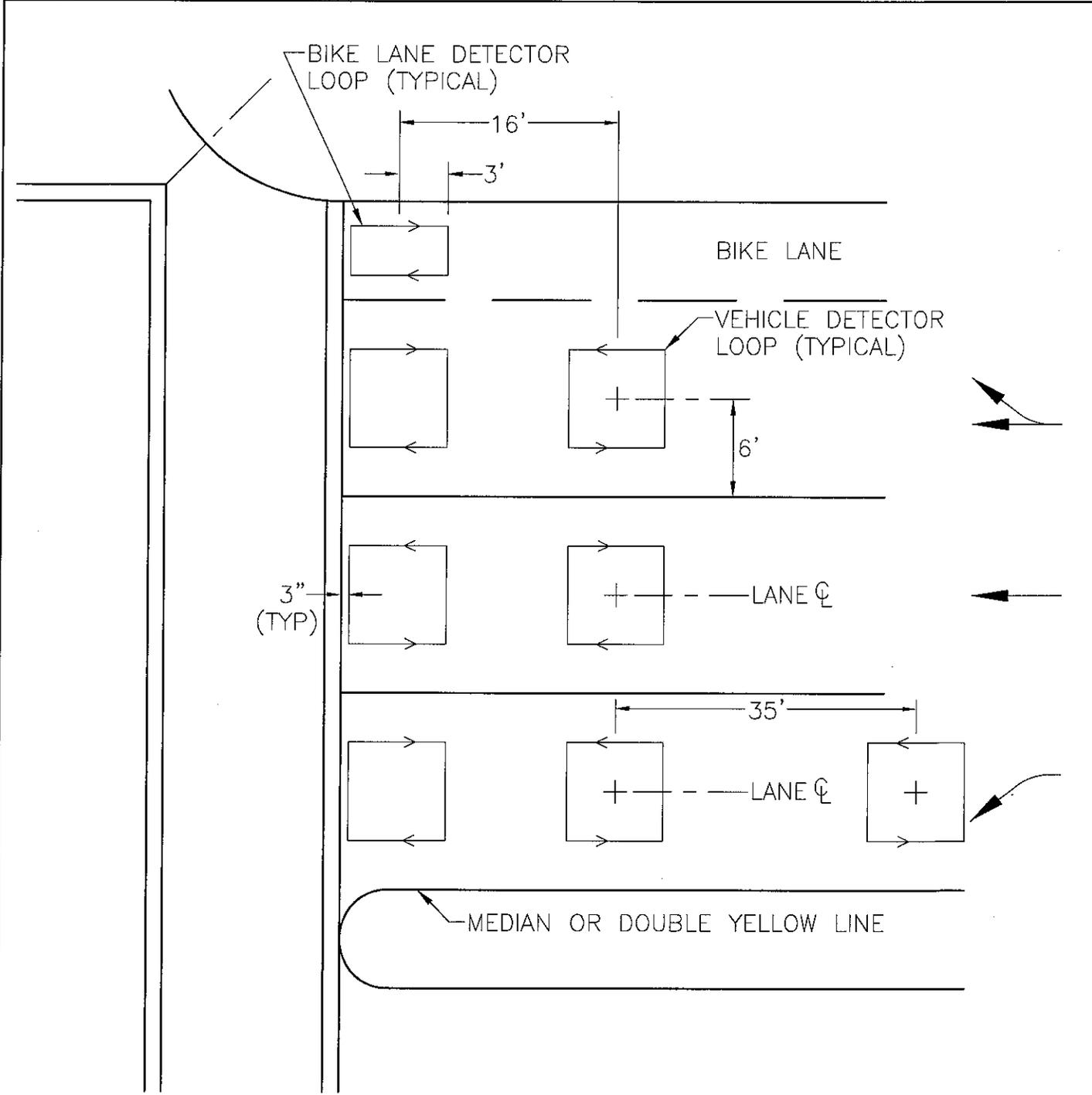
TRAFFIC SIGNAL HEAD  
LOCATIONS  
3 THROUGH LANES WITH  
2 PROTECTED LEFT TURN LANE

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MAY 2016

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CITY OF REEDLEY

TS-1F



NOT TO SCALE

LOOP DETECTOR  
PLACEMENT

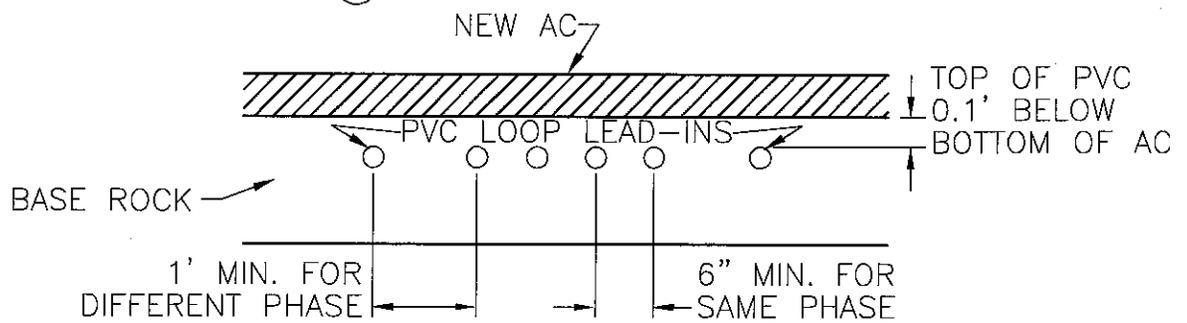
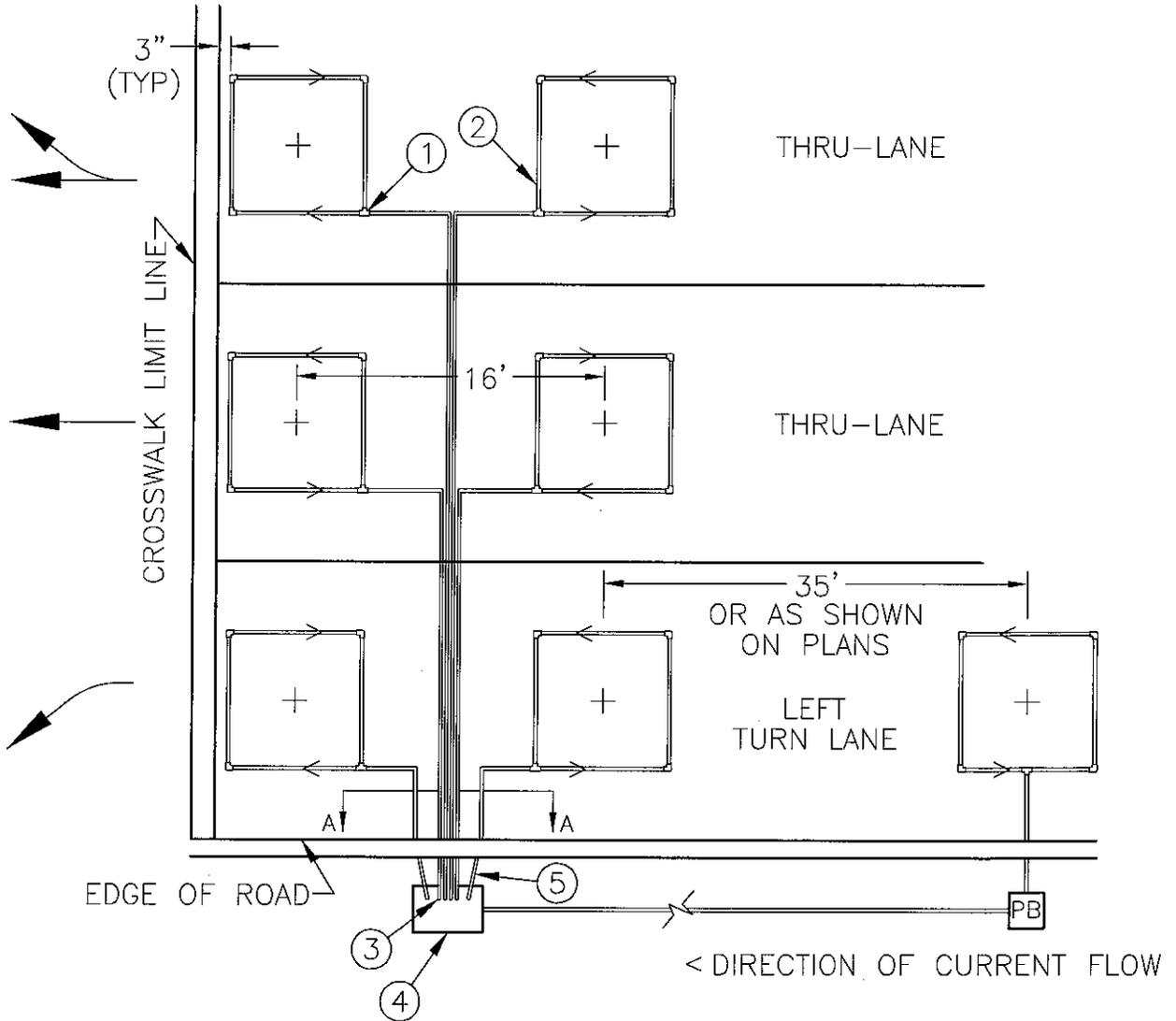
REVISIONS:  
MAY 2016

DRAWN BY: kjp

CITY OF REEDLEY

TS-2

- ① 3/4" PVC SCH.40 CONDULET. COVER SHALL BE ON TOP (TYP).
- ② 3/4" PVC SCH.40 CONDUIT & LARGE RADIUS ELS.
- ③ SUPPLY & INSTALL BUSHINGS ON ALL CONDUITS.
- ④ PER STD. SPECS, PULL BOX No.6 W/EXT. OR AS NOTED ON PLANS.
- ⑤ TWIST CONDUCTORS 2 TURNS PER FOOT FROM CONDULET TO PULL BOX IN ALL PVC LEAD-IN CONDUITS.



**SECTION A-A**

NOT TO SCALE

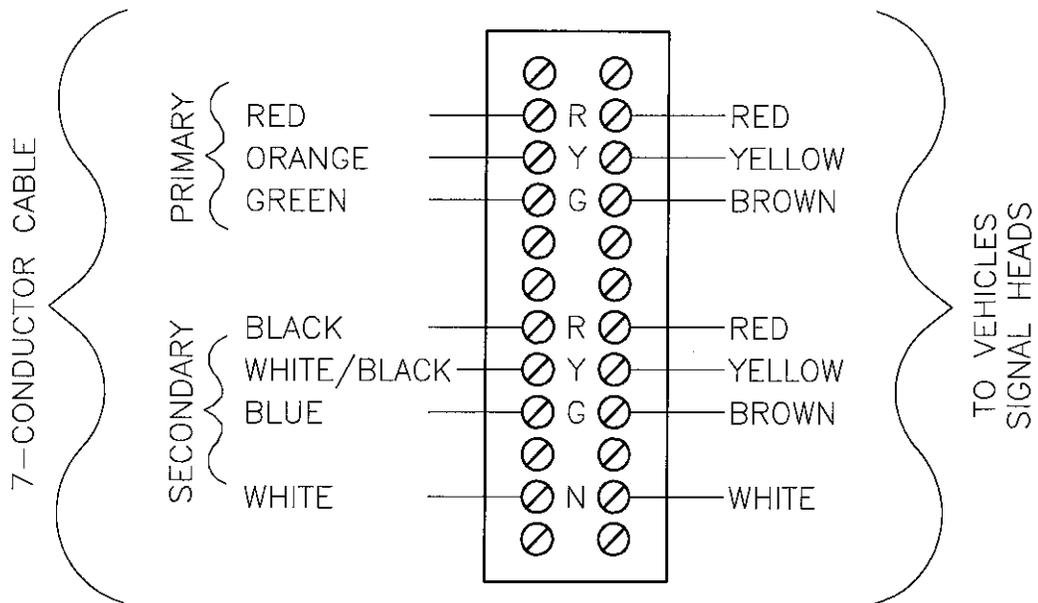
**LOOP DETECTOR  
PLACEMENT**

REVISIONS:  
MAY 2016

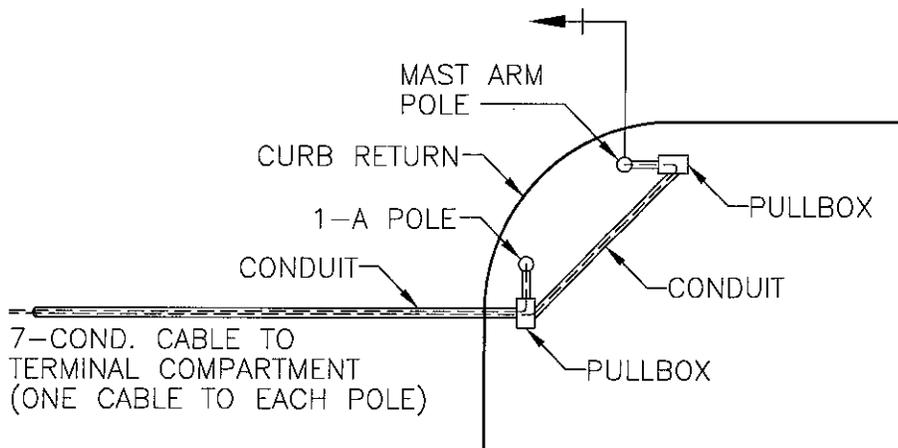
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CITY OF REEDLEY

TS-2A



VEHICLE TERMINAL COMPARTMENT



TYPICAL CORNER CONNECTIONS

NOTES:

1. INSTALL SINGLE CONDUCTOR COLOR CODED #14 THWN COPPER WIRE BETWEEN TERMINAL STRIP & EACH SIGNAL ASSEMBLY & CONNECT.
2. THE CABLES THAT COMPRISE A SIGNAL PHASE SHALL HAVE AN IDENTIFICATION BAND PLACED NEAR THE END OF TERMINATION POINTS & IN EVERY PULL BOX. THE IDENTIFICATION BAND SHALL BE A 3/8" PLASTIC STRIP & INSTALLED WITH NON-FERROUS PERMANENT FASTENER. ALL CABLES SHALL BE LABELED PER PHASING SHOWN ON PLANS.

NOT TO SCALE

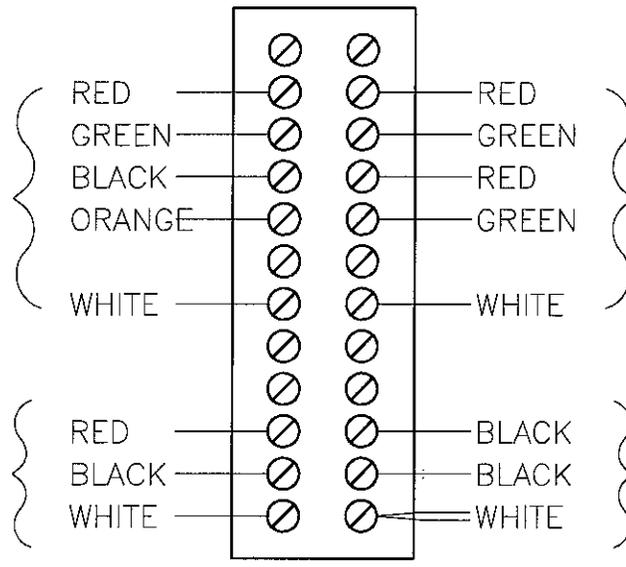
VEHICLE SIGNAL  
TERMINAL LOCATION

REVISIONS:  
MAY 2016

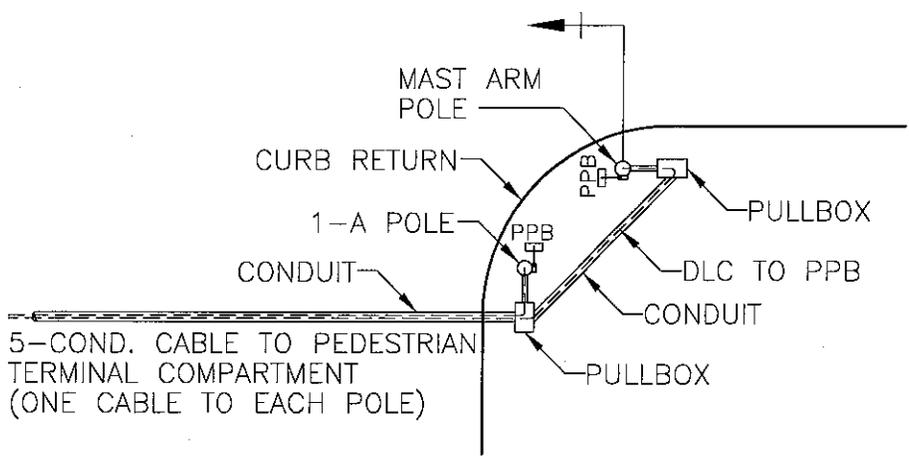
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CITY OF REEDLEY

TS-3



TERMINAL STRIP



TYPICAL CORNER CONNECTIONS

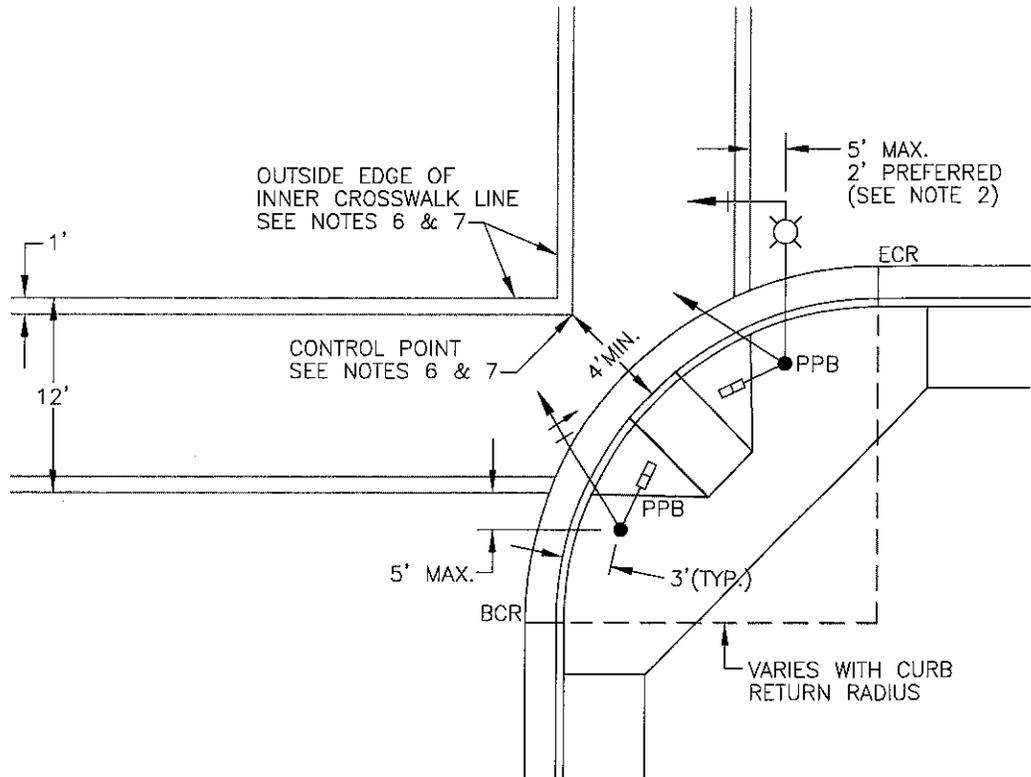
NOTES:

1. INSTALL SINGLE CONDUCTOR COLOR CODED #14 THWN COPPER WIRE BETWEEN TERMINAL STRIP & EACH SIGNAL ASSEMBLY & CONNECT.
2. THE CABLES THAT COMPRISE A SIGNAL PHASE SHALL HAVE AN IDENTIFICATION BAND PLACED NEAR THE END OF TERMINATION POINTS & IN EVERY PULL BOX. THE IDENTIFICATION BAND SHALL BE A 3/8" PLASTIC STRIP & INSTALLED WITH NON-FERROUS PERMANENT FASTENER. ALL CABLES SHALL BE LABELED PER PHASING SHOWN ON PLANS.

NOT TO SCALE

<p>PEDESTRIAN SIGNAL TERMINAL LOCATIONS</p>	<p>REVISIONS: MAY 2016</p>	<p>CITY OF REEDLEY</p>
	<p>DRAWN BY: kjp</p>	<p>TS-3A</p>





**NOTES:**

1. PEDESTRIAN PUSH BUTTONS ON SEPARATE POSTS WHERE REQUIRED. PPB SHALL BE MOUNTED ON "PEDESTRIAN PUSH BUTTON POST" PER CALTRANS STD. DWG ES-7A. DO NOT USE "COMBINED" POST UNLESS SPECIFIED.
2. SIGNAL STANDARD SHALL BE USED FOR PEDESTRIAN PUSH BUTTONS WITHIN 5 FEET FROM THE CROSSWALK AREA. IF STANDARD IS MORE THAN 5 FEET FROM A CROSSWALK, A PPB SHALL BE INSTALLED AS SHOWN ON PLANS.
3. PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ON CROSSWALK SIDE OF STANDARD OR POST.
4. CROSSWALK AREA OF THE SIDEWALK SHOULD BE KEPT CLEAR OF POLES.
5. WHERE CURB RETURN RADIUS EXCEEDS 10 FEET, SIGNAL FACES SHOULD BE SPLIT OR LOCATED ON SEPARATE STANDARDS SO THAT GOOD VISIBILITY OF RIGHT AND FAR LEFT SIGNALS ARE PROVIDED FOR ALL APPROACHES.
6. MAINTAIN A MINIMUM CLEAR SIDEWALK WIDTH OF 48 INCHES FOR WHEELCHAIRS.
7. CURB RETURNS WITH A RADIUS OF LESS THAN 15 FEET: LINE UP OUTSIDE EDGE OF INNER CROSSWALK LINE WITH FACE OF CURB.
8. CURB RETURNS WITH A RADIUS OF 15 FEET OR MORE: LOCATE CENTER OF CURB RETURN. MEASURE 4 FEET TOWARDS CENTER OF INTERSECTION TO LOCATE CONTROL POINT. LINE UP THE CROSSWALK WITH THE CONTROL POINT AS INDICATED ABOVE.

**LEGEND:**

- ←○ VEHICLE SIGNAL HEAD
- ←|○ VEHICLE SIGNAL HEAD WITH BACKPLATE
- ←|+○ VEHICLE SIGNAL HEAD WITH ARROWS
- PEDESTRIAN SIGNAL HEAD
- ⊙ LUMINAIRE
- PPB PEDESTRIAN PUSH BUTTON
- PPB ON POST

NOT TO SCALE

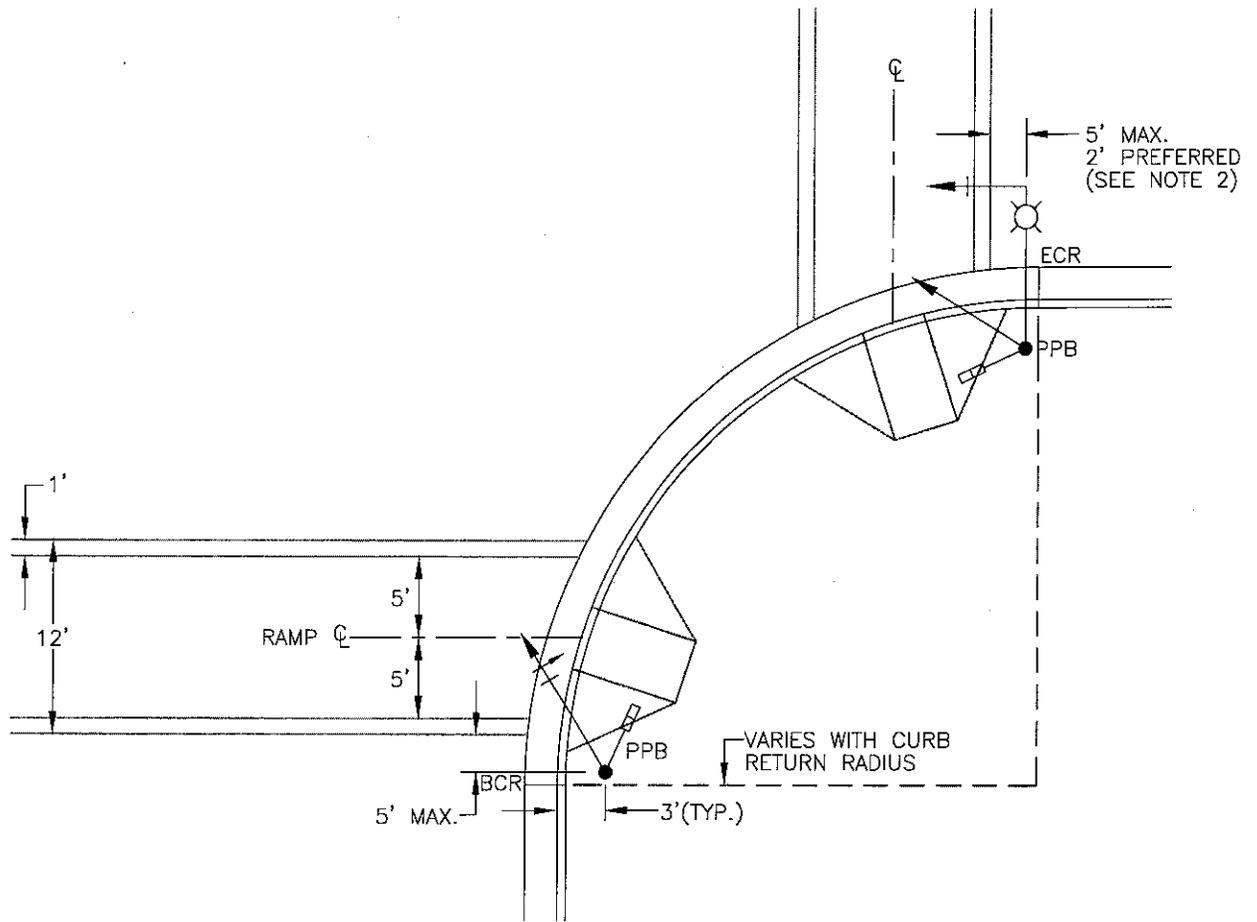
TRAFFIC SIGNAL  
INSTALLATION

REVISIONS:  
MAY 2016

DRAWN BY: kjp

CITY OF REEDLEY

TS-5



**NOTES:**

1. PEDESTRIAN PUSH BUTTONS ON SEPARATE POSTS WHERE REQUIRED. PPB SHALL BE MOUNTED ON "PEDESTRIAN PUSH BUTTON POST" PER CALTRANS STD. DWG ES-7A. DO NOT USE "COMBINED" POST UNLESS SPECIFIED.
2. SIGNAL STANDARD SHALL BE USED FOR PEDESTRIAN PUSH BUTTONS WITHIN 5 FEET FROM THE CROSSWALK AREA. IF STANDARD IS MORE THAN 5 FEET FROM A CROSSWALK, A PPB SHALL BE INSTALLED AS SHOWN ON PLANS.
3. PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ON CROSSWALK SIDE OF STANDARD OR POST.
4. CROSSWALK AREA OF THE SIDEWALK SHOULD BE KEPT CLEAR OF POLES.
5. WHERE CURB RETURN RADIUS EXCEEDS 10 FEET, SIGNAL FACES SHOULD BE SPLIT OR LOCATED ON SEPARATE STANDARDS SO THAT GOOD VISIBILITY OF RIGHT AND FAR LEFT SIGNALS ARE PROVIDED FOR ALL APPROACHES.
6. MAINTAIN A MINIMUM CLEAR SIDEWALK WIDTH OF 48 INCHES FOR WHEELCHAIRS.

**LEGEND:**

- ←○ VEHICLE SIGNAL HEAD
- ←○ VEHICLE SIGNAL HEAD WITH BACKPLATE
- ←○ VEHICLE SIGNAL HEAD WITH ARROWS
- PEDESTRIAN SIGNAL HEAD
- ⊙ LUMINAIRE
- PPB PEDESTRIAN PUSH BUTTON
- PPB ON POST

NOT TO SCALE

<p><b>TRAFFIC SIGNAL INSTALLATION DUAL RAMP DESIGN</b></p>	<p>REVISIONS: MAY 2016</p> <hr/> <p>DRAWN BY: kjp</p>	<p>CITY OF REEDLEY</p> <p><b>TS-5A</b></p>
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